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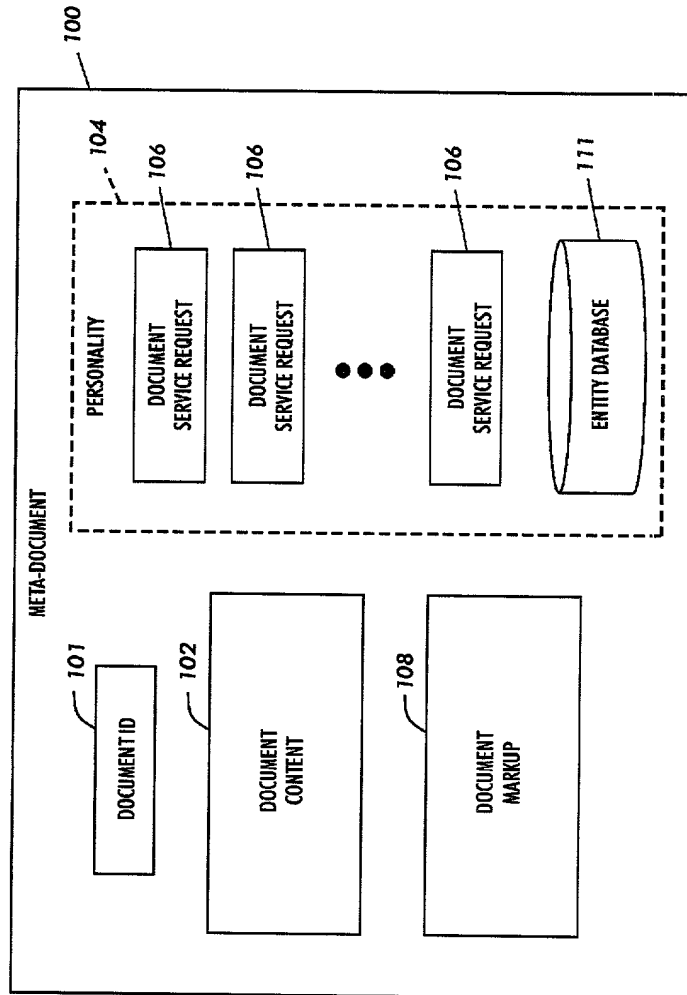


FIG. 1

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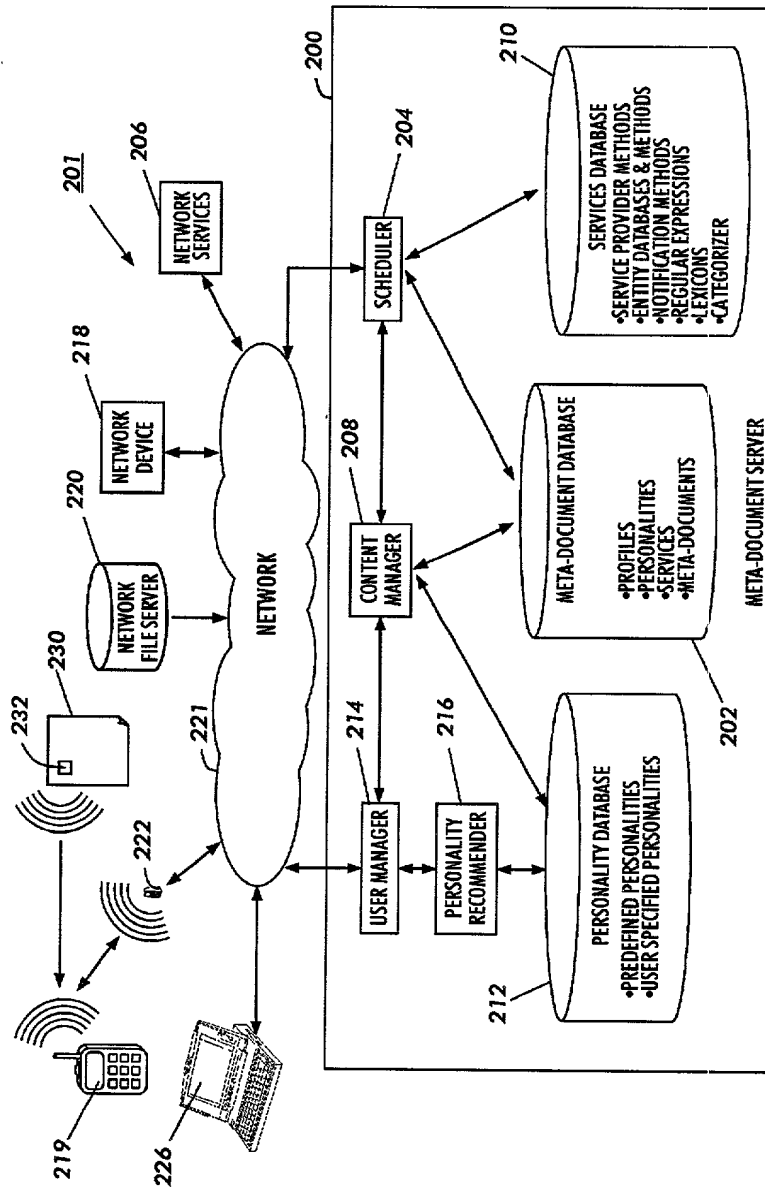


FIG. 2

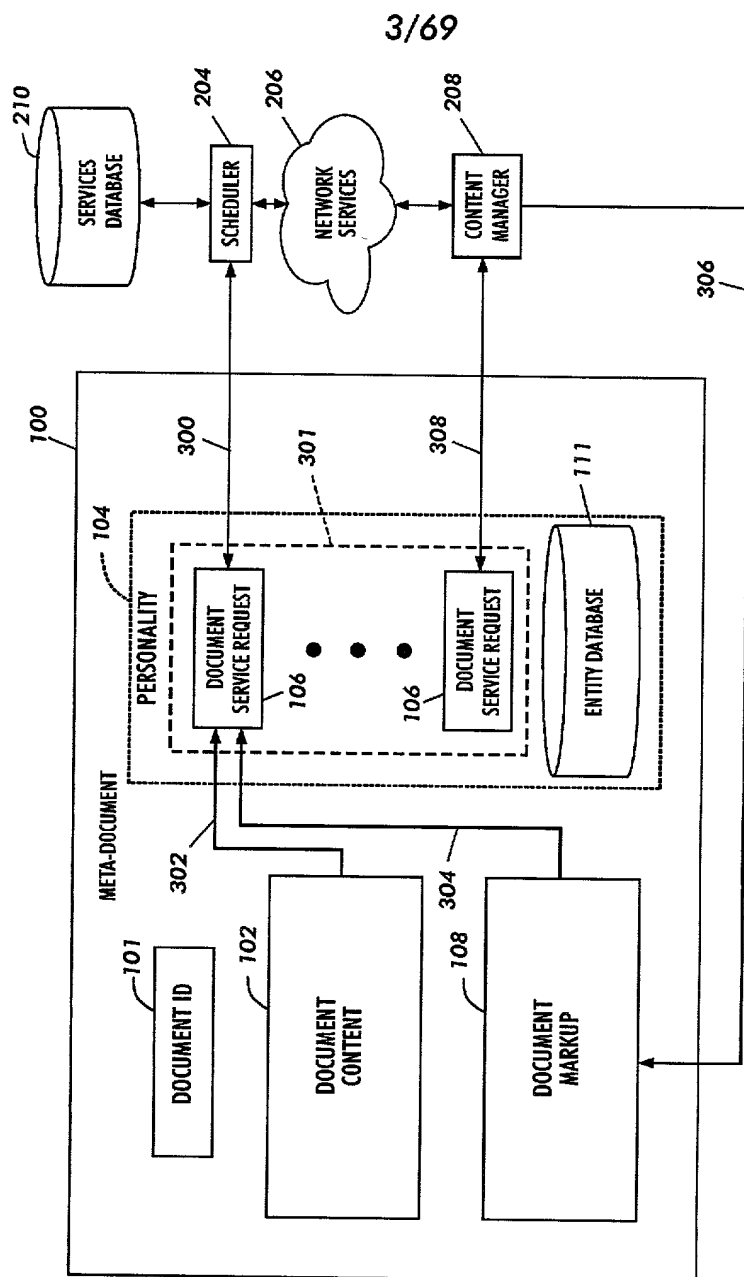


FIG. 3

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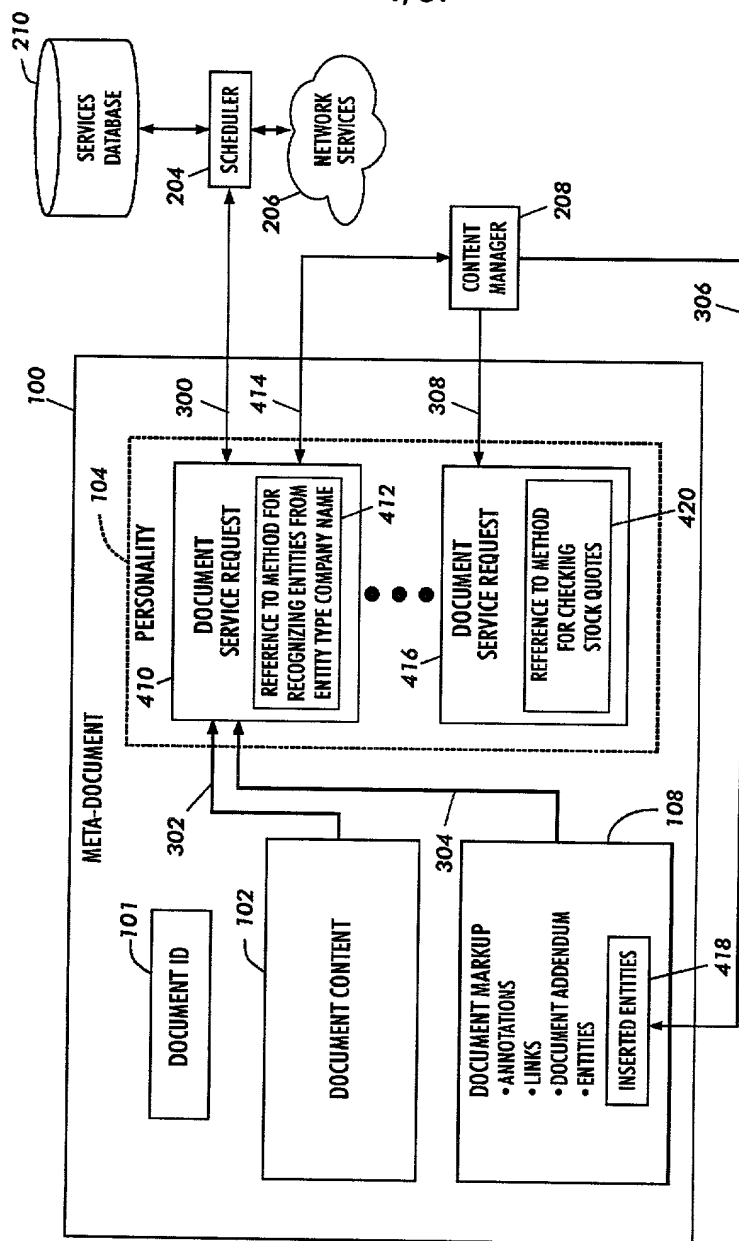
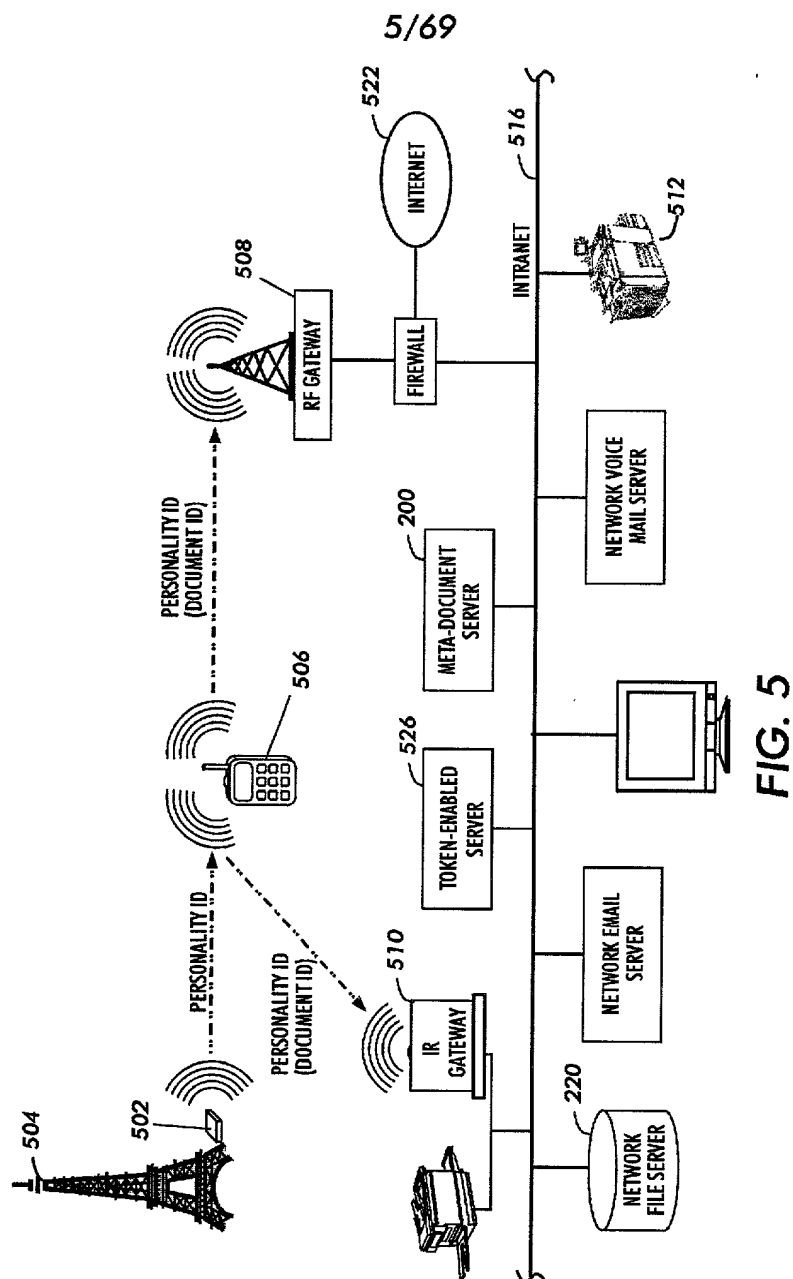


FIG. 4



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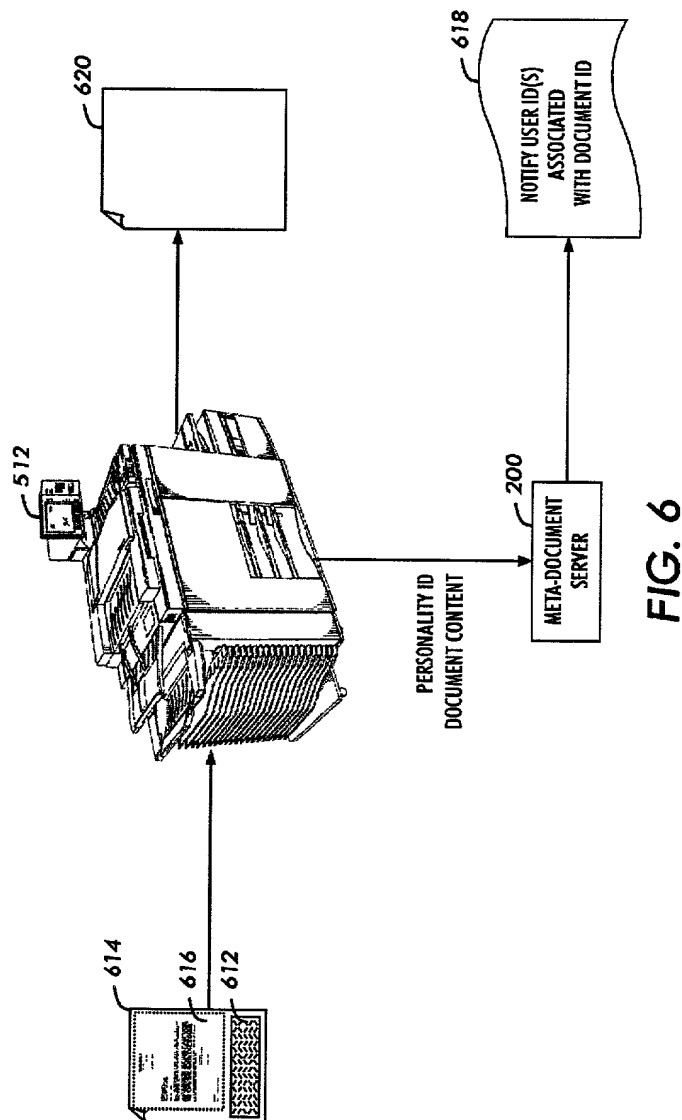


FIG. 6

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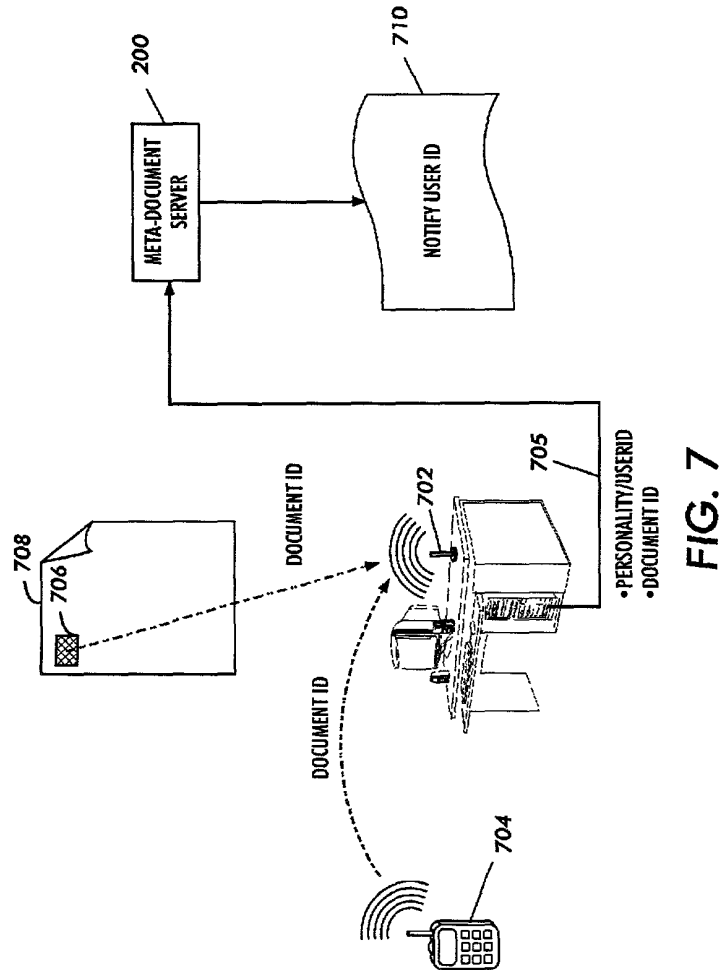


FIG. 7

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PRINT

PRINTER

NAME: 814

STATUS: IDLE

TYPE: XEROX 4517 POSTSCRIPT LEVEL 2

WHERE: TIMES.GRENOBLE.XRCE.XEROX.COM:PASSTHRU ☐ PRINT TO FILE

COMMENT: XEROX N2125 B&W DUPLEX - LE CHATEAU - 2ND FLOOR

PAGE RANGE

☒ ALL
☐ CURRENT PAGE ☐ SELECTION
☐ PAGES:

ENTER PAGE NUMBERS AND/OR PAGE RANGES SEPERATED BY COMMAS, FOR EXAMPLE 1,3,5-12 804

COPIES

NUMBER OF COPIES:

☒ COLLATE 806

ENRICHMENT

☒ PERSONALITY: ☐ SELECT A PERSONALITY FOR ME

APPLY ENRICHMENT TO:

☒ ALL
☐ CURRENT PAGE ☐ SELECTION
☐ PAGES:

INSERT ENRICHMENT AS:

☒ LINKS
☐ CONTENT

808 **ZOOM** **802** **810**

PRINT WHAT: PAGES PER SHEET:

PRINT: SCALE TO PAPER SIZE:

FIG. 8

800

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PRINT DOCUMENT PROPERTIES

LAYOUT **PAPER/QUALITY** **ENRICHMENT**

902 ☒ PERSONALITY: BUSINESS ☐ SELECT PERSONALITY FOR ME 900

PROVIDE ENRICHMENT BY:

☒ PRINTING WITH DOCUMENT

☐ STORING AT SERVER

INSERT ENRICHMENT AS:

☒ LINKS

☐ CONTENT 901

WHEN STORING ENRICHMENT AT SERVER:

☒ EMAIL ME WHEN COMPLETED

ADDRESS:

☐ DO NOT NOTIFY ME 904

CAPTURE POINT:

☒ AT WORKSTATION 908

☐ AT PRINT SERVER 906

ADVANCED

OK **CANCEL**

FIG. 9

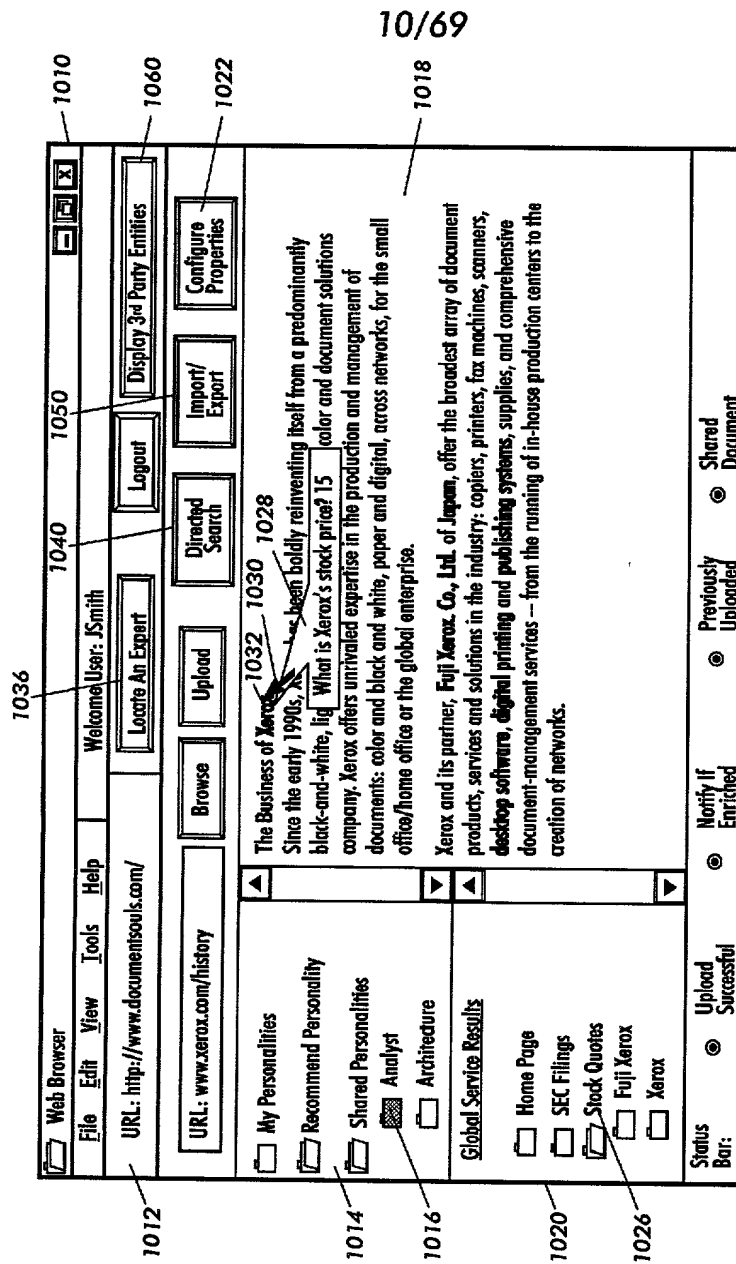


FIG. 10

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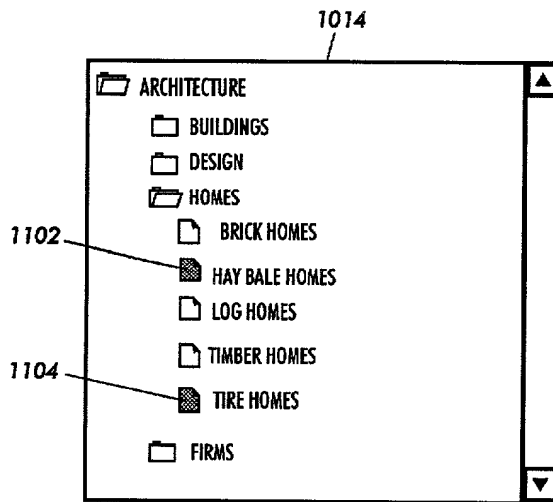


FIG. 11

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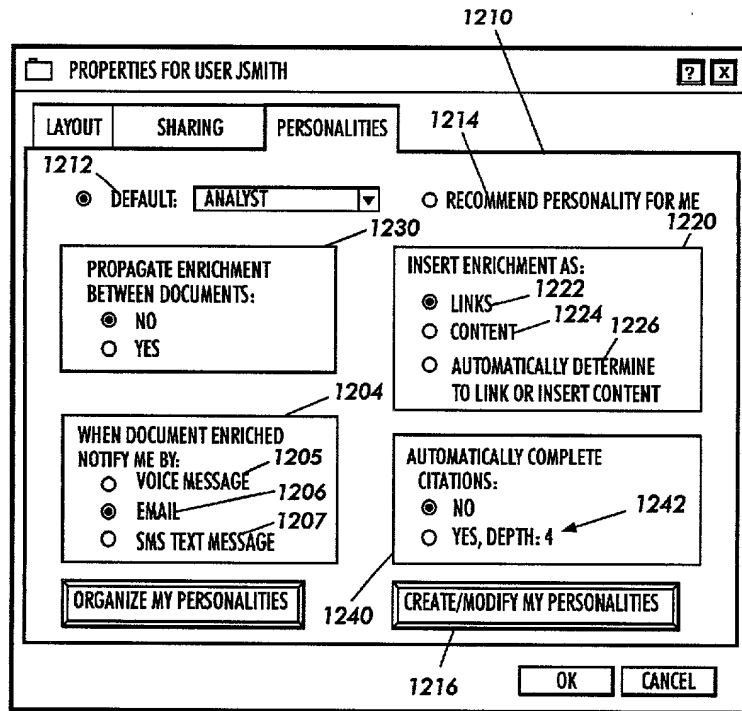


FIG. 12

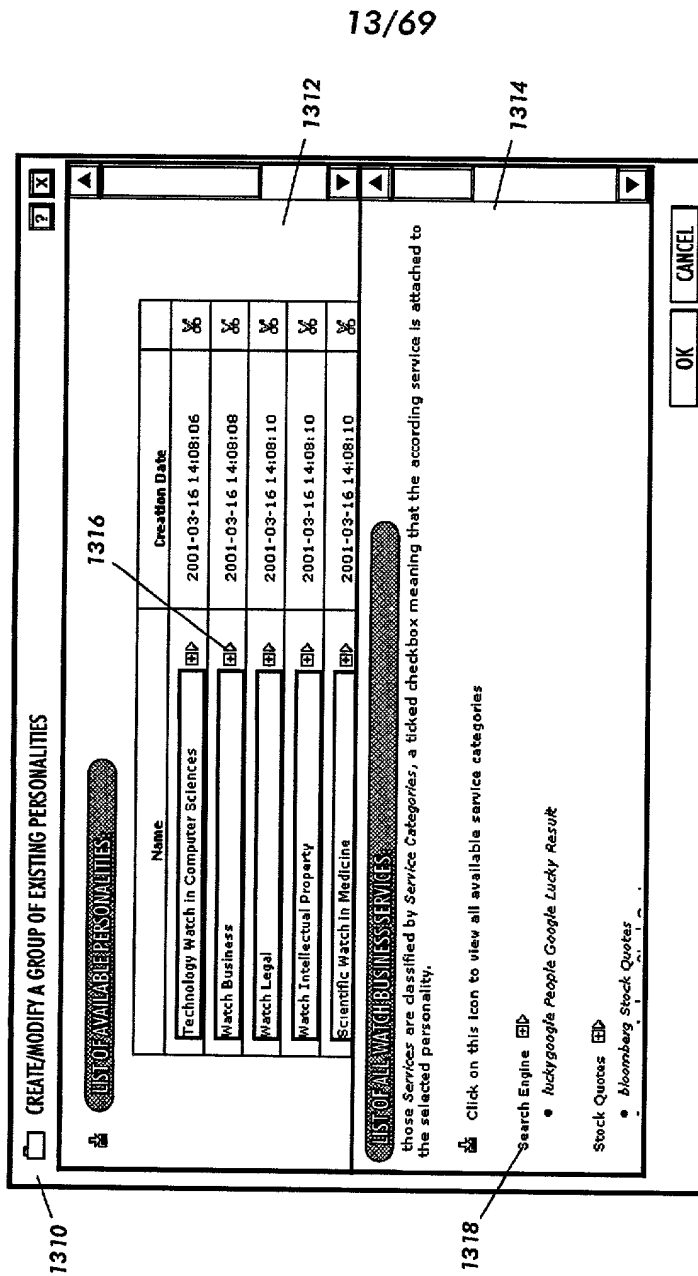


FIG. 13

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1400 1426 1412 1414 1430 1442 1440 1444 1450

1318 SEARCH ENGINE ☐ ☐

1404	1422	1420	1408	1452	1451	1455	1453	1456	1454
SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH	
<input checked="" type="checkbox"/>	COMPUTING	COMPUTING	ALWAYS	0	YAHOO	FREE	LINK	DAILY	
<input type="checkbox"/>	BIOLOGY	BIOLOGY	ALWAYS	0	GOOGLELUCKY	NULL	LINK	NEVER	
<input type="checkbox"/>	MEDICINE	MEDICINE	ALWAYS	0	ALTAVISTA	FEE	LINK	AUTO	
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES AND IDENTIFY 3RD PARTY ENTITIES	COMPANIES	EXPERT	0	GOOGLELUCKY	NULL	CONTENT	NULL	
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES USING GOOGLELUCKY	PRODUCTS	ALWAYS	2	NORTHERNLIGHTS	NULL	LINK	WEEKLY	
<input type="checkbox"/>	COUNTRIES	COUNTRIES	NOVICE	0	GOOGLELUCKY	FEE	CONTENT	UNTIL 2003	
<input type="checkbox"/>	ASTRONOMY	ASTRONOMY	ALWAYS	1	GOOGLE	NULL	LINK	MONTHLY	
<input checked="" type="checkbox"/>	PEOPLE	PEOPLE	ALWAYS	3	GOOGLE.PEOPLE	NULL	LINK	NULL	

1424 VIEW HIERARCHY
SET DEPTH 1432

FIG. 14

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1502

CREATE/MODIFY MY PERSONALITIES

?

X

NAME:

BROWSE

1504

☒

1506

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

☐

1508

USE SELECTED DOCUMENTS AND/OR FOLDERS
TO CREATE A NEW PERSONALITY

BROWSE

1509

☐

1510

USE SELECTED FILE/WEBSITE TO CREATE A NEW PERSONALITY

BROWSE

1510

☐

1520

CREATE QUESTION FORM USING PERSONALITY LEXICONS

QUESTION:

1520

Hint:

1514

1516

KNOWLEDGE

LEVEL:

☒ NOVICE

☐ EXPERT

1512

OK

CANCEL

FIG. 15

1502 1504 1506 1508 1509 1510 1514 1516 1520 1512

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1600

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

NAME: TECHNOLOGY WATCH IN ORGANIC CHEMISTRY

OPERATION:

☒ MERGE 1602

☐ SUBTRACT 1604

PERSONALITY A ▼

WITH/FROM

PERSONALITY B ▼

OK CANCEL

FIG. 16

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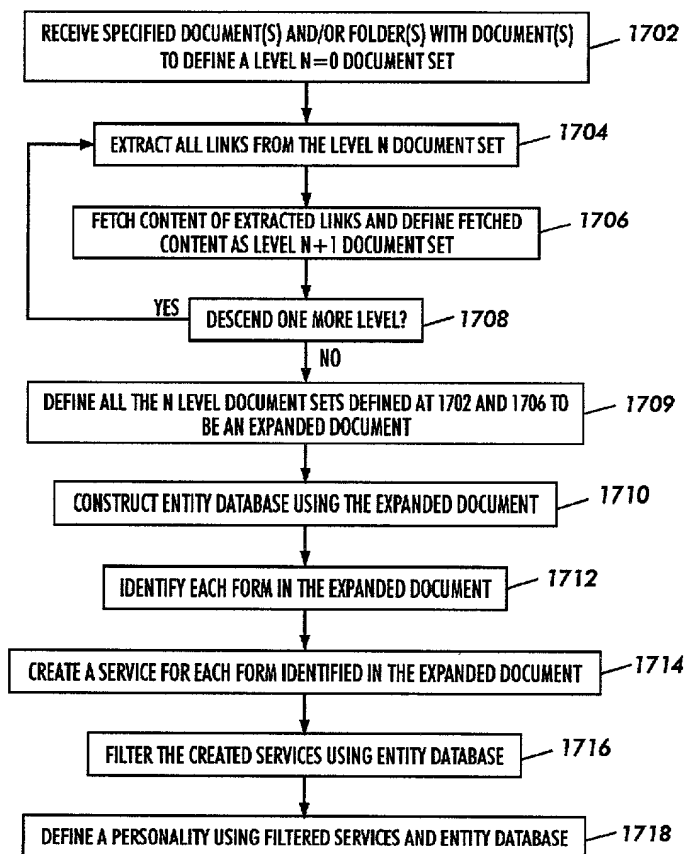


FIG. 17

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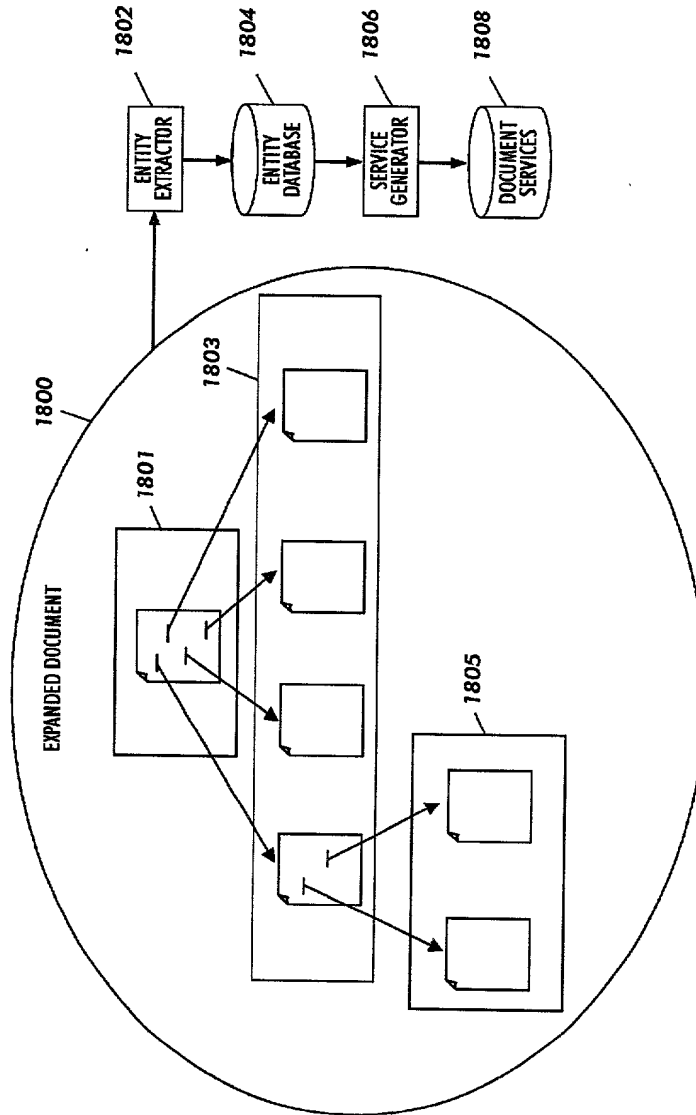


FIG. 18

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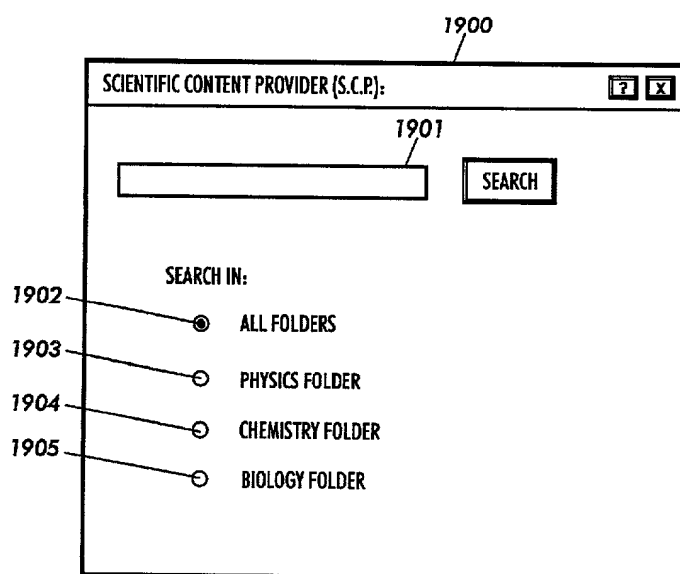


FIG. 19

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SCIENTIFIC SEARCH ☐ ☐

SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH
<input checked="" type="checkbox"/>	ALL FOLDERS RESULT OF SCIENTIFIC CONTENT PROVIDER	STANDARD	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL
<input type="checkbox"/>	PHYSICS RESULT OF SCIENTIFIC CONTENT PROVIDER	PHYSICS	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL
<input type="checkbox"/>	CHEMISTRY RESULT OF SCIENTIFIC CONTENT PROVIDER	CHEMISTRY	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL
<input type="checkbox"/>	BIOLOGY RESULT OF SCIENTIFIC CONTENT PROVIDER	BIOLOGY	ALWAYS	0	S.C.P.	FREE	CONTENT	NULL

2004

2002

FIG. 20

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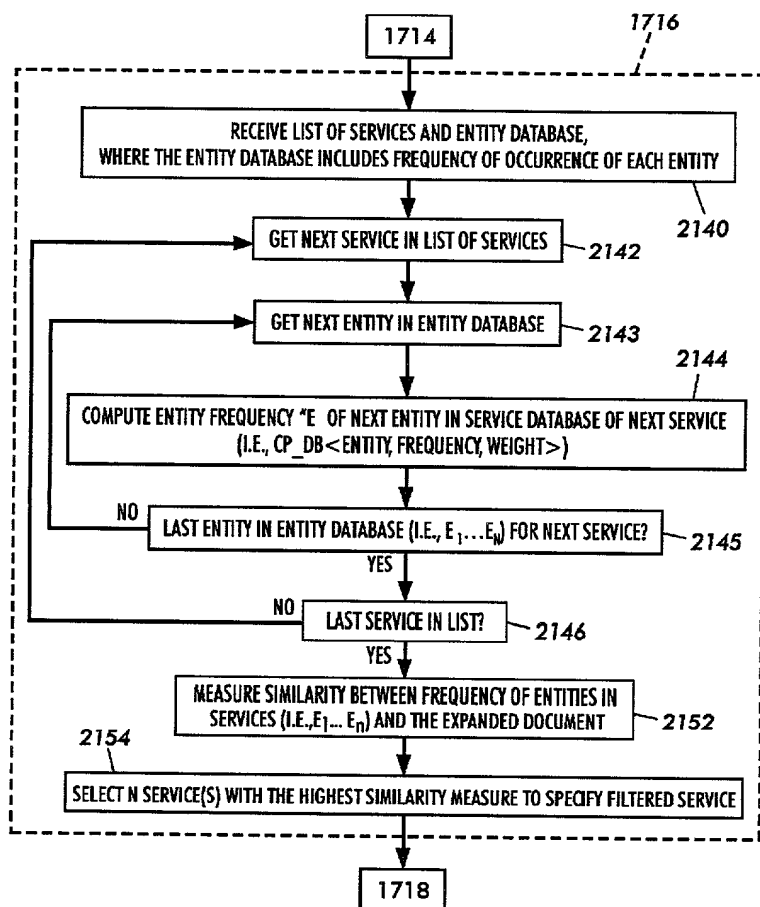
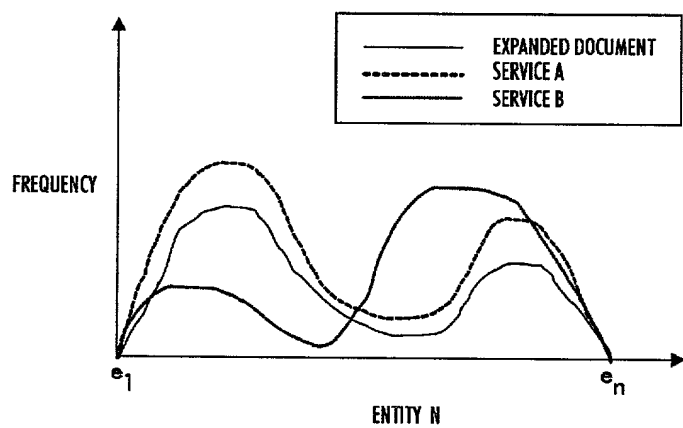


FIG. 21

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**FIG. 22**

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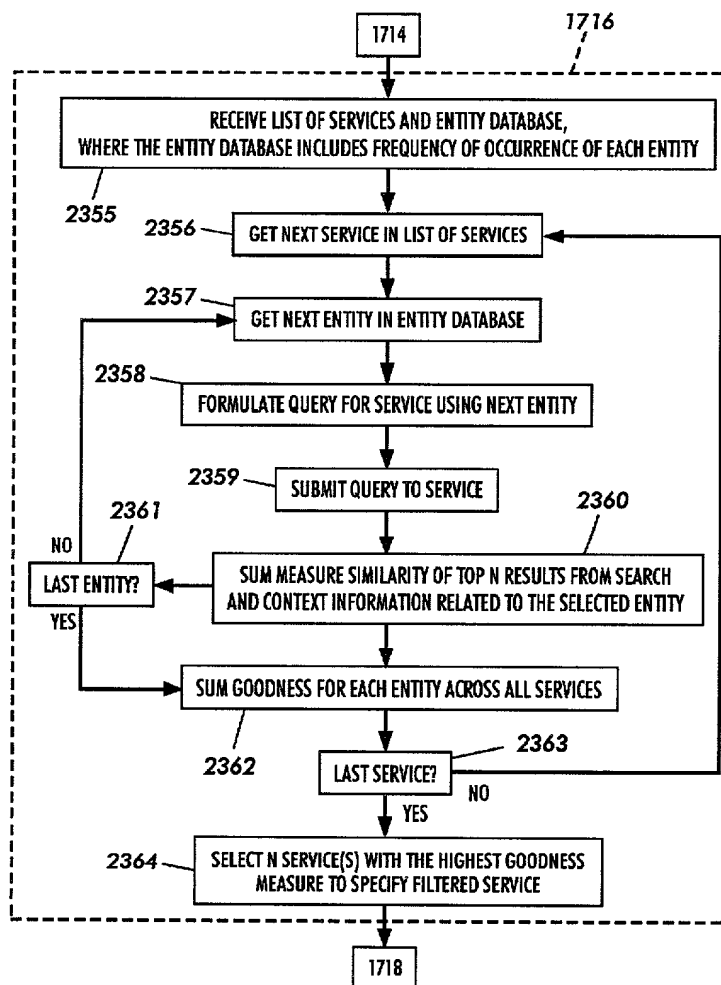


FIG. 23

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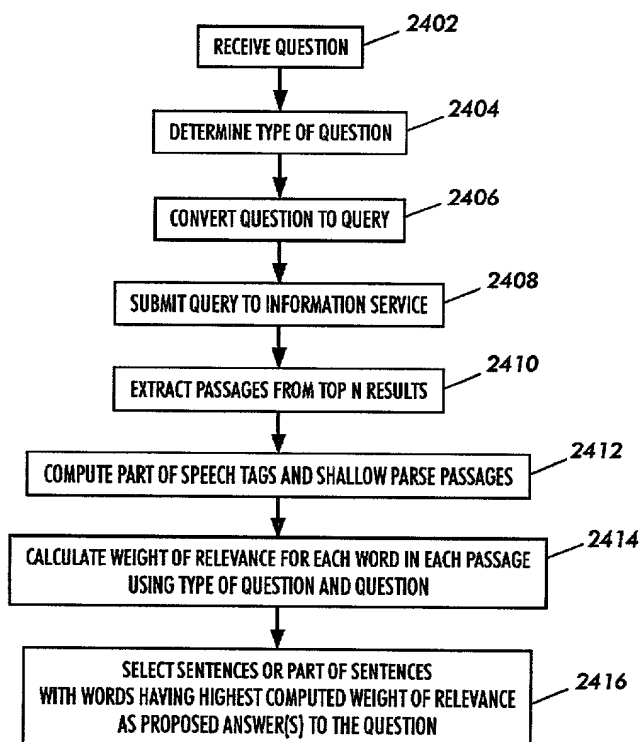


FIG. 24

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2502

E-LEARNING SERVICES ASSOCIATED WITH E-LEARNING PERSONALITY	
SEL	
<input checked="" type="checkbox"/>	LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
<input type="checkbox"/>	LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
<input type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A TUTORIAL CONCERNING EACH TEXT UNIT
<input type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN EXPERT CONCERNING IDENTIFIED SUBJECTS
<input type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN INTERACTIVE COURSE ABOUT IDENTIFIED SUBJECTS
<input checked="" type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED SUBJECTS
<input checked="" type="checkbox"/>	LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 25

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2602

LANGUAGE LEARNING SERVICES ASSOCIATED WITH LANGUAGE LEARNING PERSONALITY	
SEL	
<input checked="" type="checkbox"/>	LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
<input type="checkbox"/>	LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
<input type="checkbox"/>	LINK EACH SENTENCE, OR PHRASE, TO A GRAMMATICAL DESCRIPTION OF THE STRUCTURE OF THE SENTENCE OR PHRASE
<input type="checkbox"/>	LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO OTHER INSTANCES OF THE SAME IN DIFFERENT CONTEXTS FROM THE PRESENT
<input type="checkbox"/>	LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO ONE OR MORE INTERACTIVE GRAMMAR EXERCISES CONCERNING THAT ELEMENT
<input checked="" type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED LANGUAGE
<input checked="" type="checkbox"/>	LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LANGUAGE LEARNING RESOURCES CONCERNING EACH TEXT UNITS

2604
2606
2608
2610
2612
2614
2616

FIG. 26

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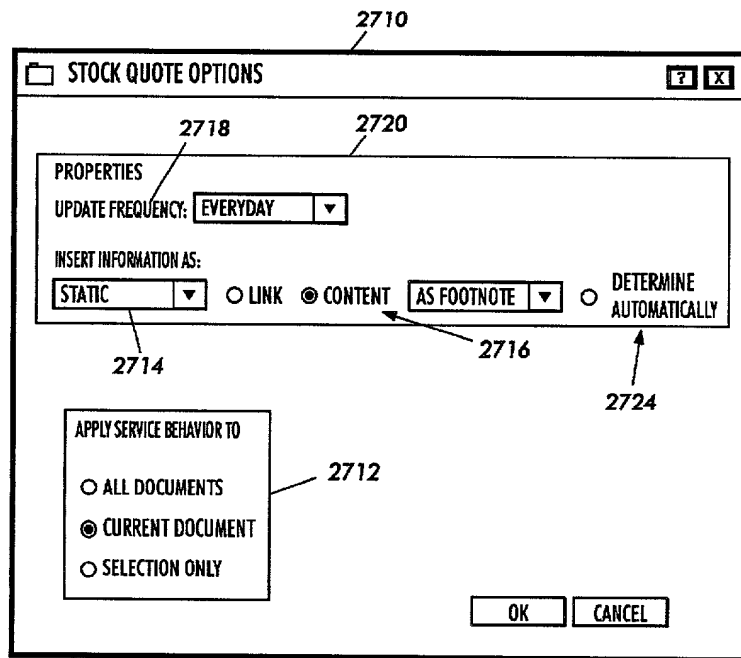


FIG. 27

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2800

☐ ANNOTATE PROPERTY

ANNOTATE ENTITIES WHEN:

2802 ☐ ALWAYS

2804 ☒ EXPERT MODE:

2806 ☐ NOVICE MODE:

2808 CHANGE REFERENCE

2801

2805

2803

2807

2810

2811

AND

ANNOTATE ENTITIES THAT OCCUR WITH A FREQUENCY LESS THAN: 4 IN THE REFERENCE DOCUMENT(S) AND/OR DATABASE(S) AT WWW.XRCE.XEROX.COM/DB/EXPERT.

ANNOTATE ONLY THOSE ENTITIES THAT OCCUR WITH A FREQUENCY GREATER THAN: 20 IN THE REFERENCE DOCUMENT(S) AND/OR DATABASE(S) AT WWW.XRCE.XEROX.COM/DB/NOVICE.

ANNOTATE ENTITY WHEN IT APPEARS IN DOCUMENT CONTENT WITH A FREQUENCY GREATER THAN: 4.

OK CANCEL

FIG. 28

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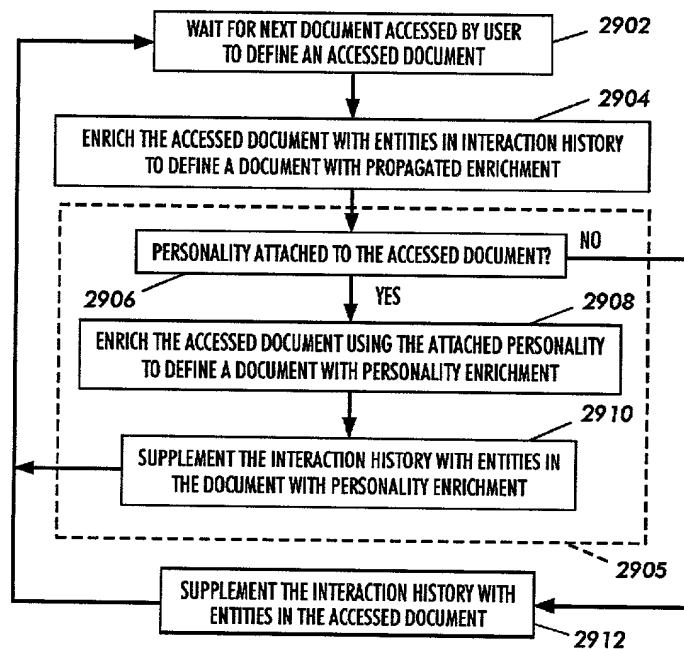


FIG. 29

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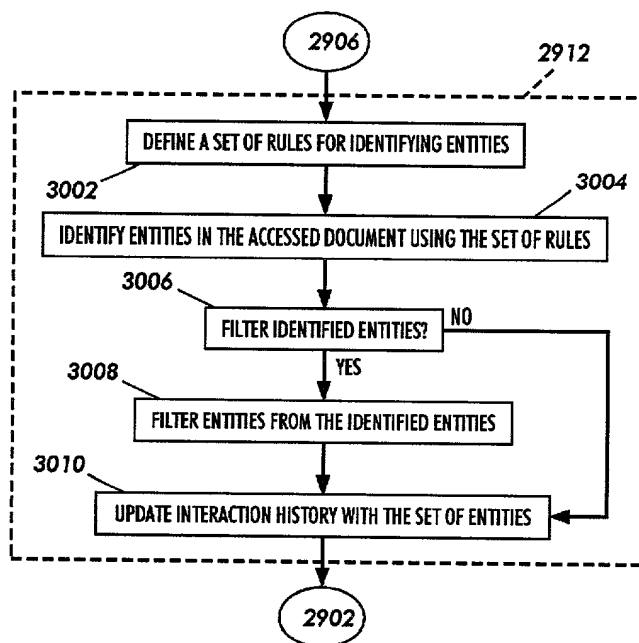


FIG. 30

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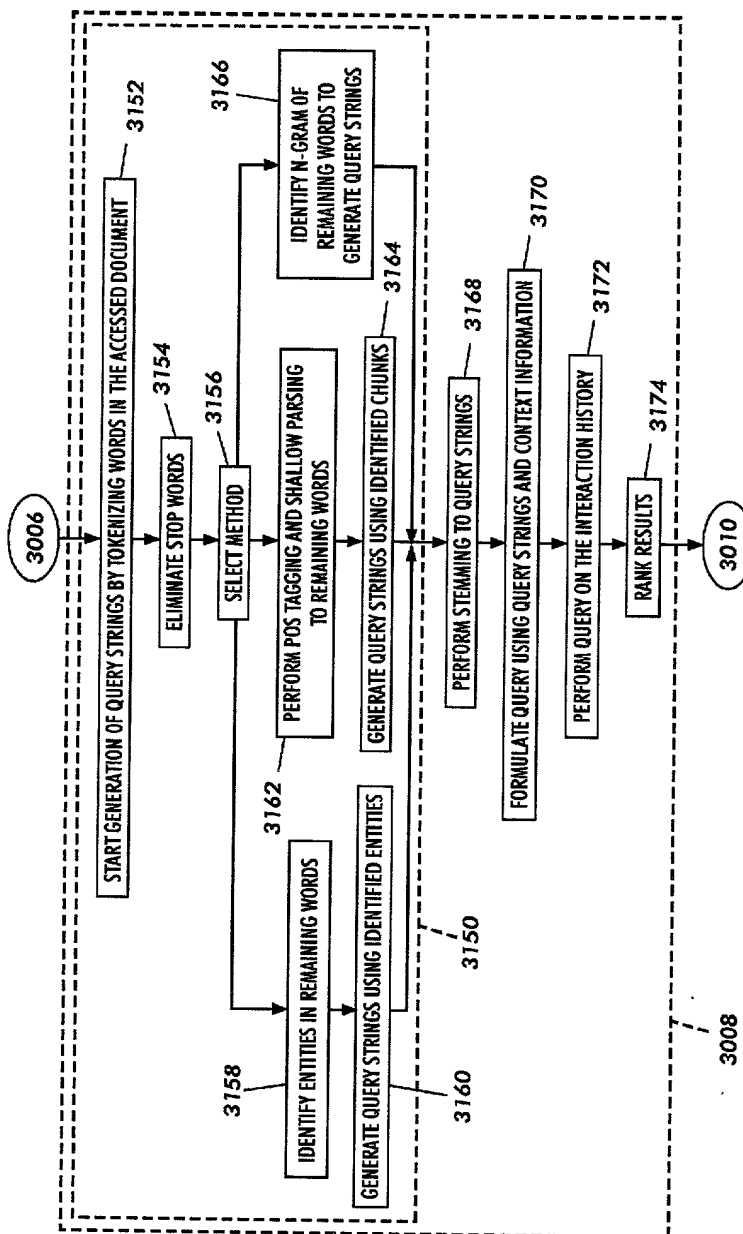


FIG. 31

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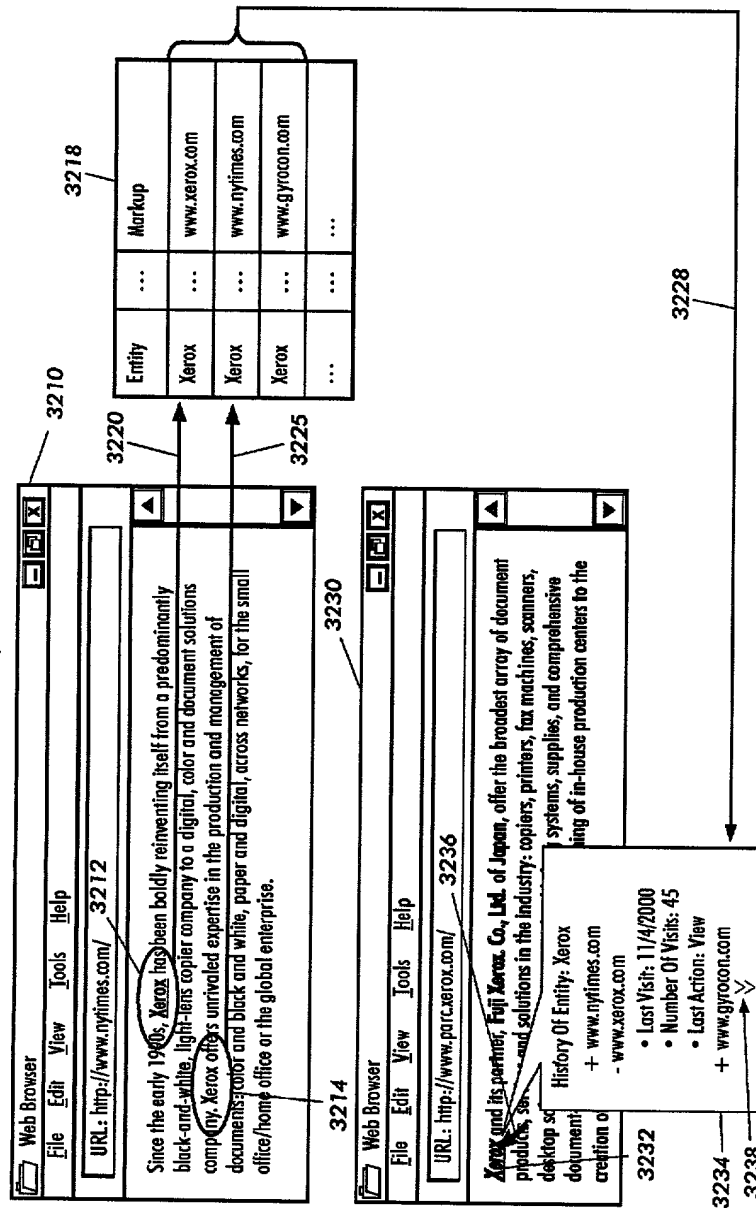


FIG. 32

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3218

ENTITY	ENTITY TYPE	VISITS	LAST VISIT	ACTION LIST	DMOZ CATEGORY	LOCATION	POS	MARKUP
XEROX	BUSINESS	45	11/4/2000	VIEW(43), PRINT(2)	BUSINESS	40	NOUN	WWW.XEROX.COM
XEROX	BUSINESS	1	5/1/2001	VIEW(1)	FINANCE	689	NOUN	WWW.NYTIMES.COM
XEROX	BUSINESS	4	2/22/2001	EMAIL(1), VIEW(3)	COMPUTER	343	NOUN	WWW.GYROCON.COM
...

FIG. 33

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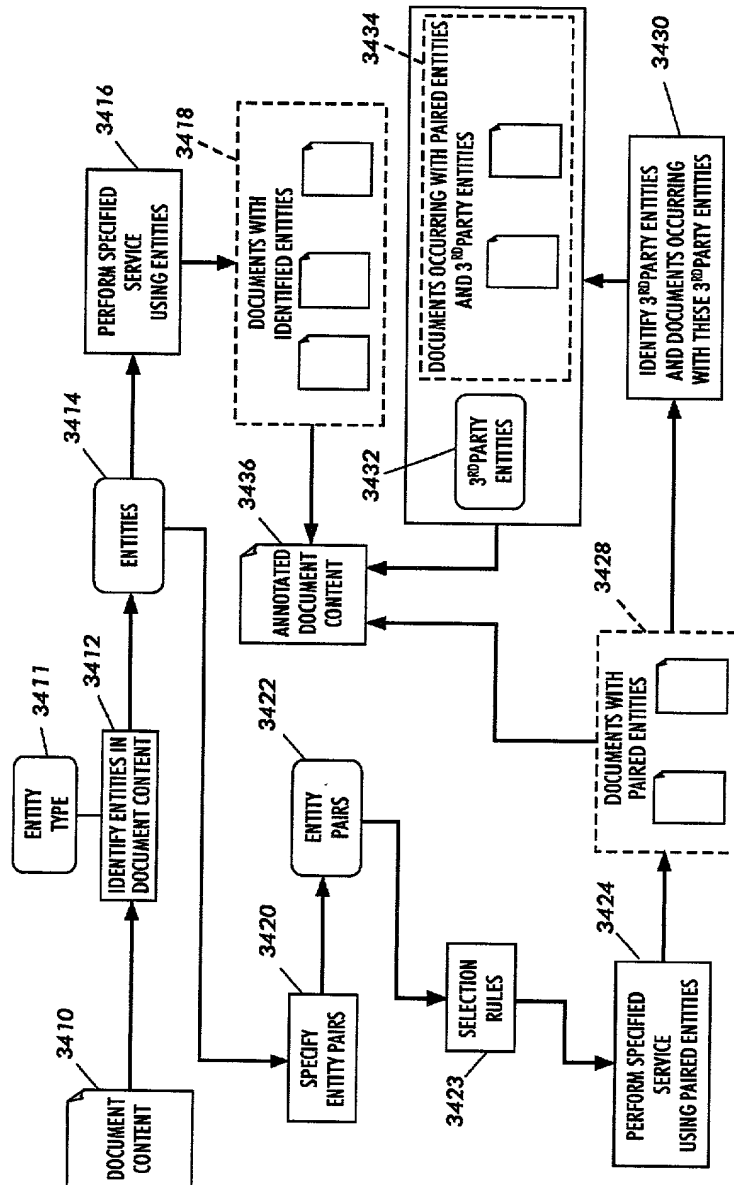
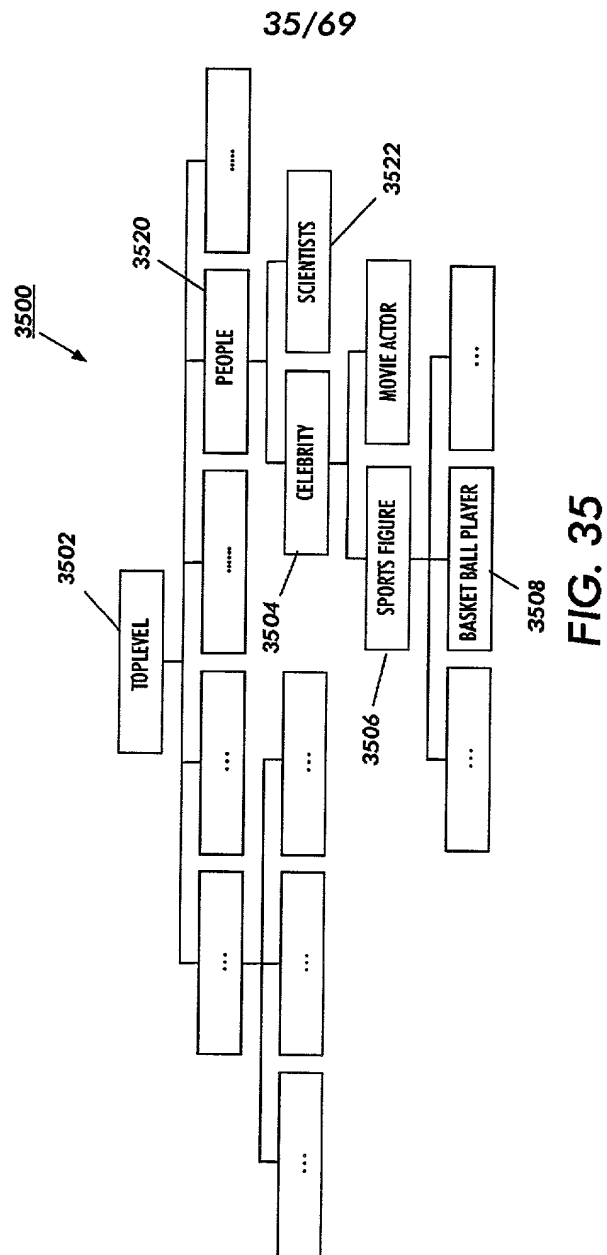


FIG. 34



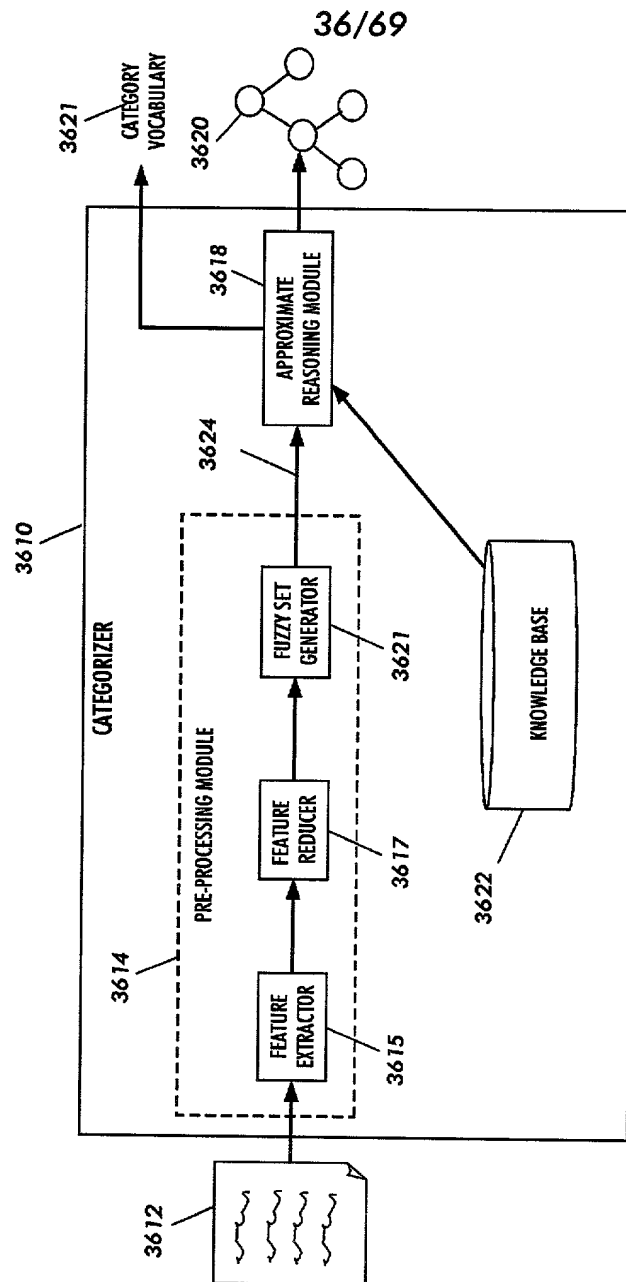


FIG. 36

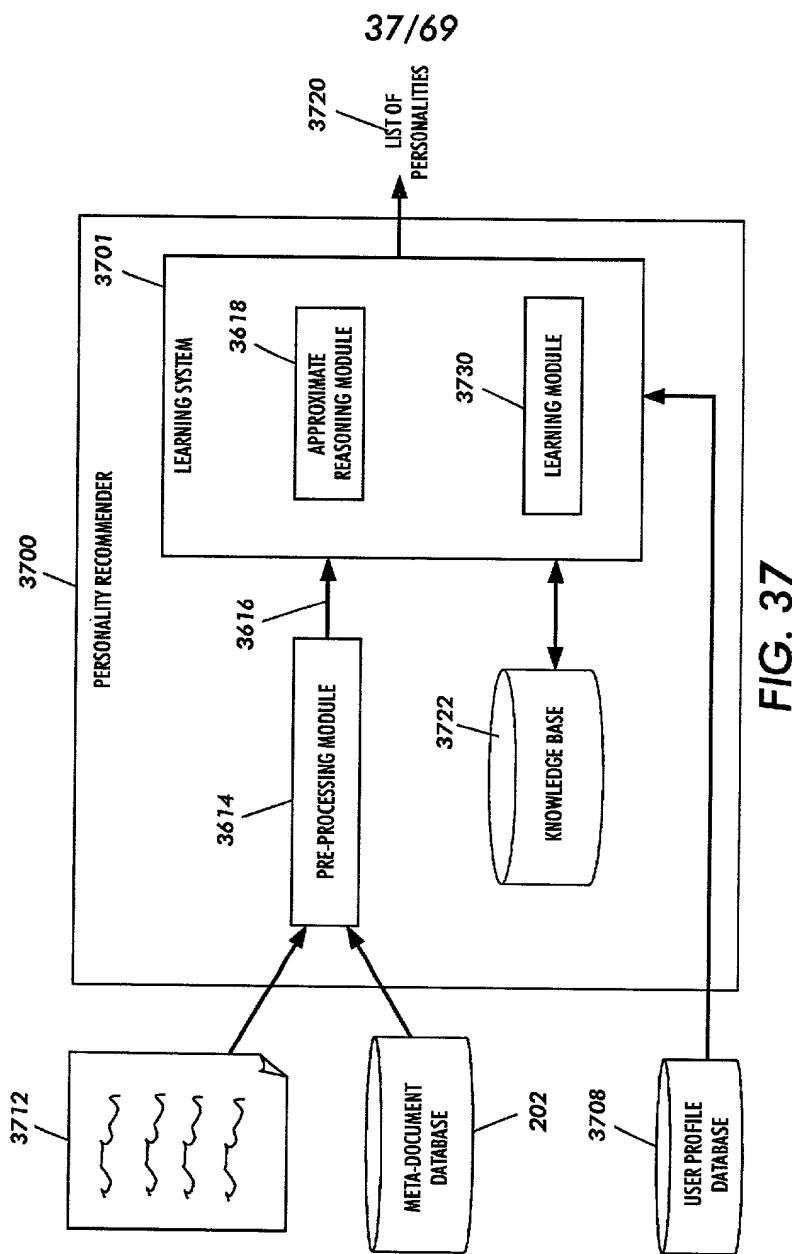
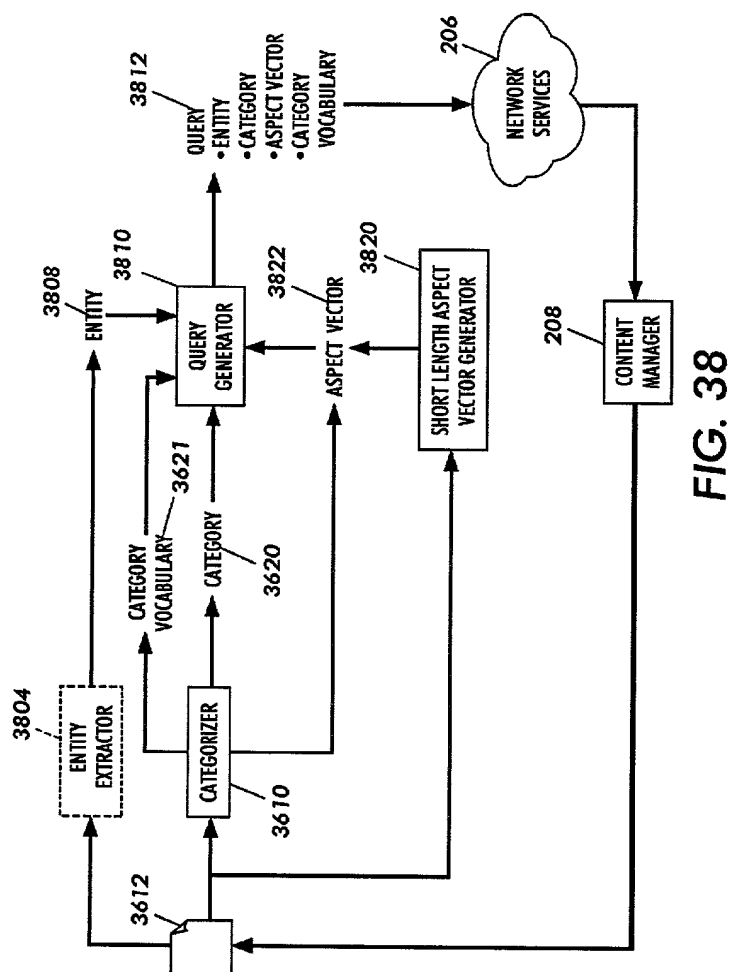
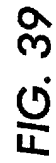


FIG. 37

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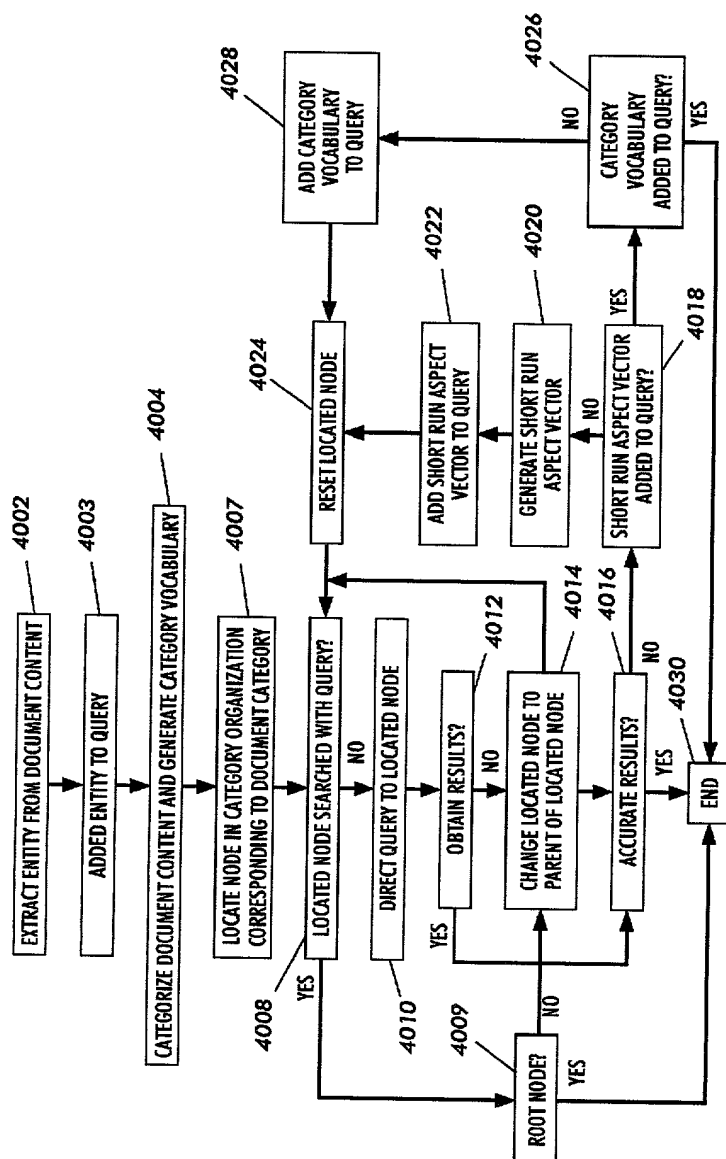
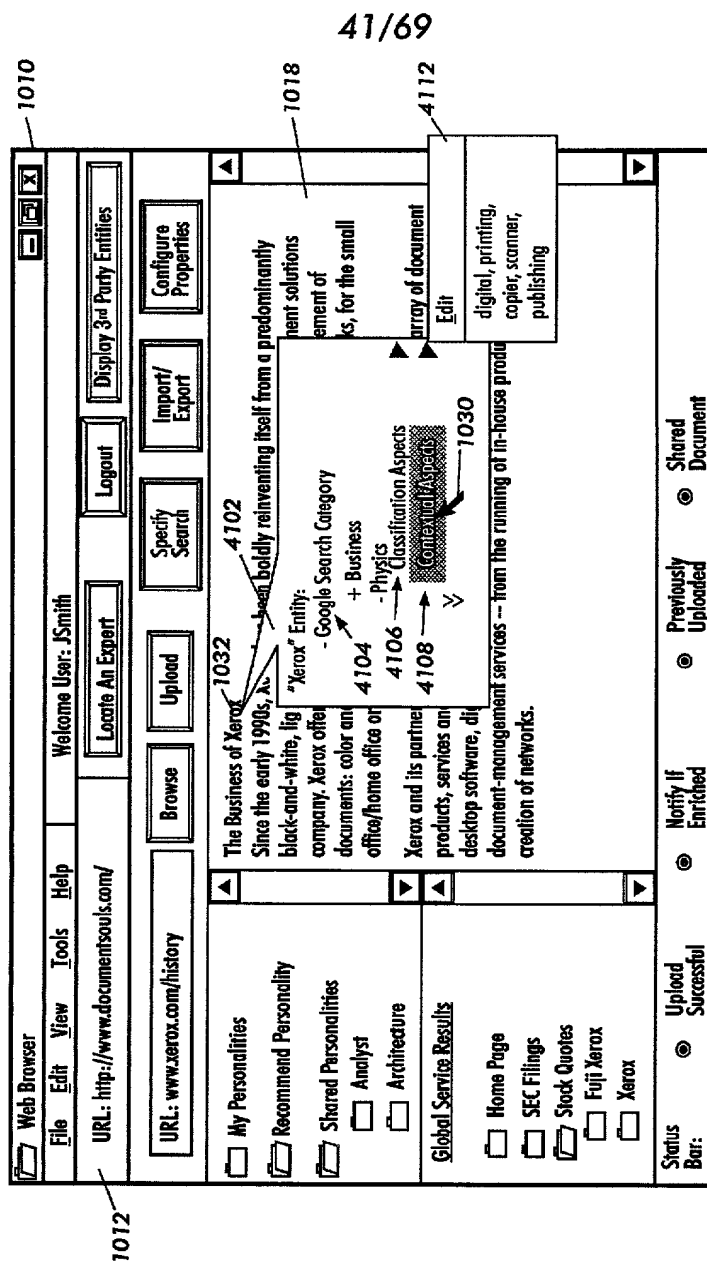


FIG. 40



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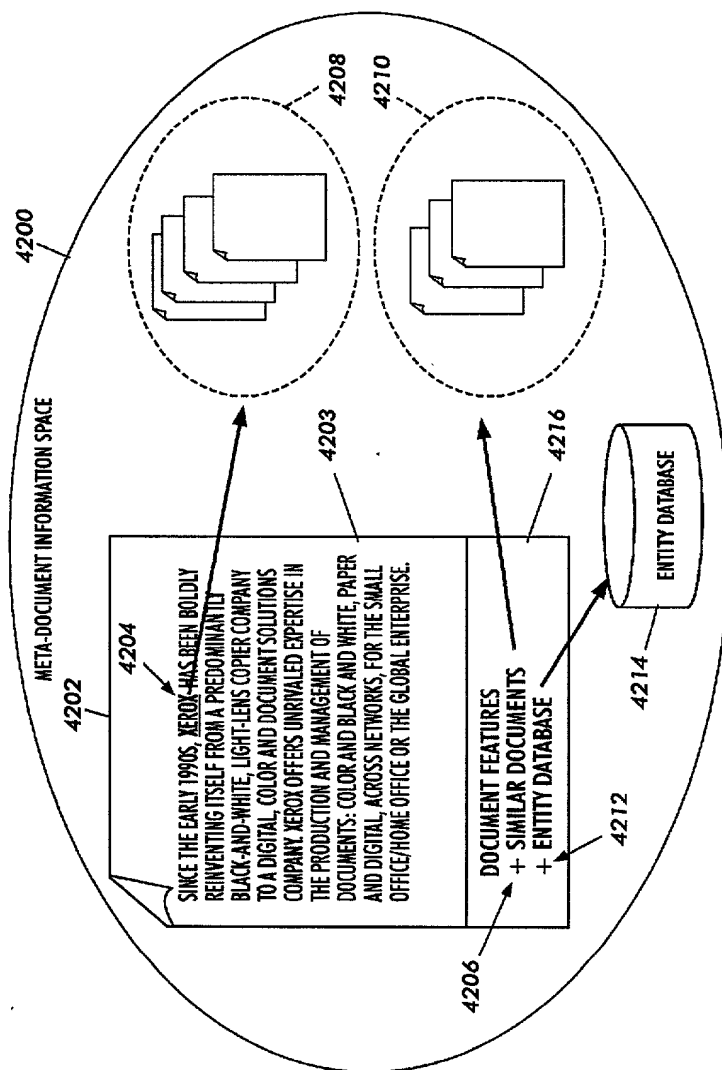


FIG. 42

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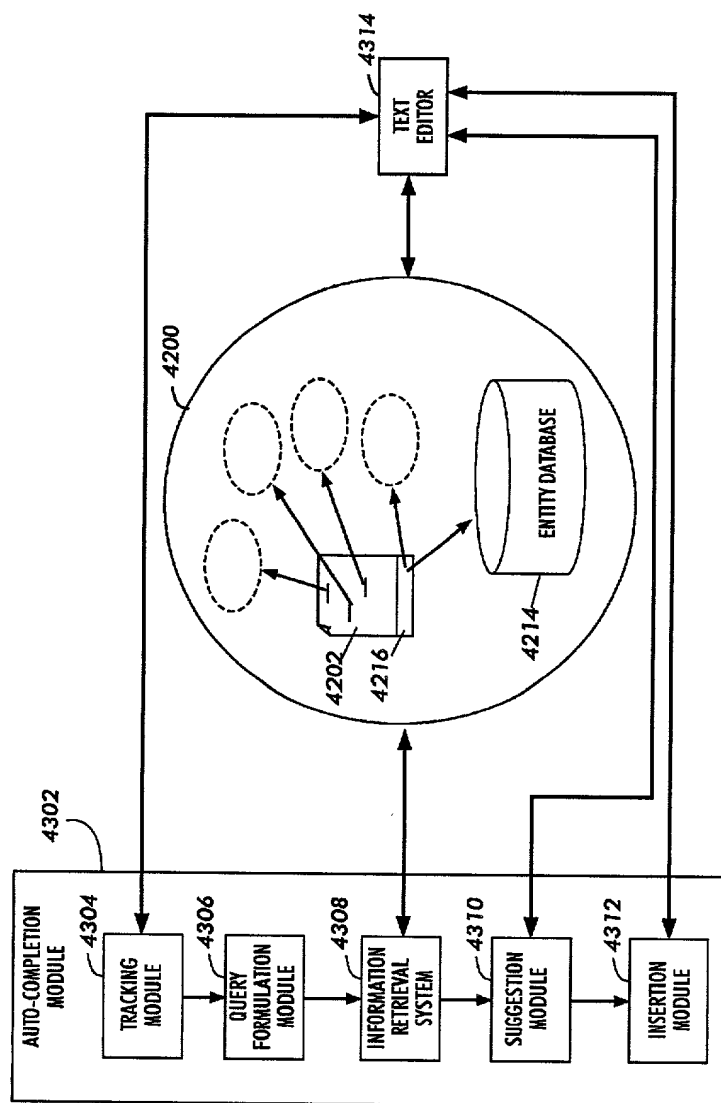


FIG. 43

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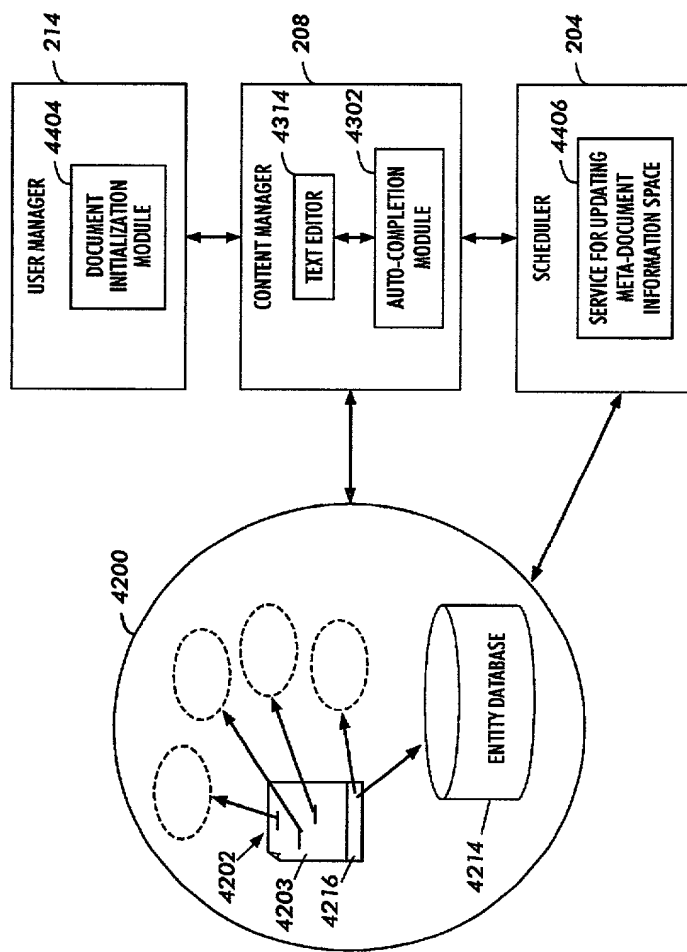


FIG. 44

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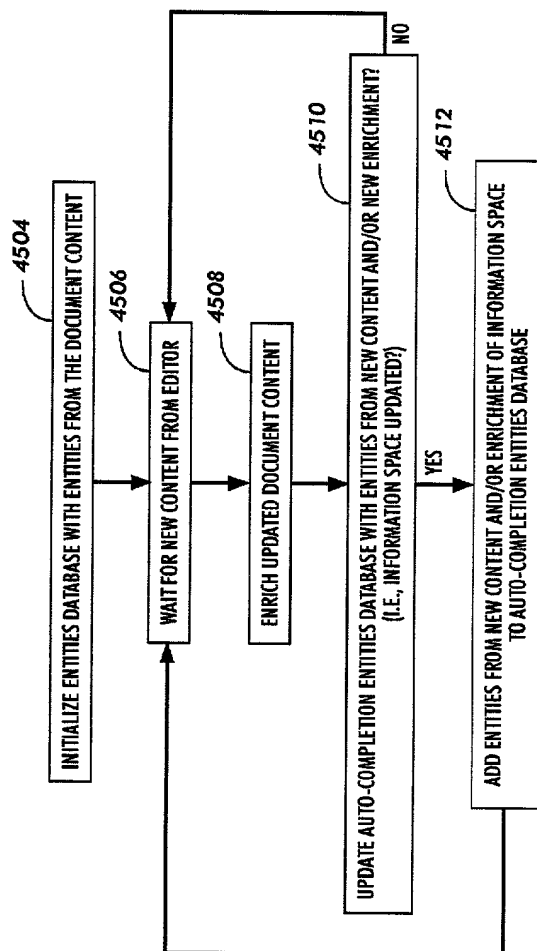


FIG. 45

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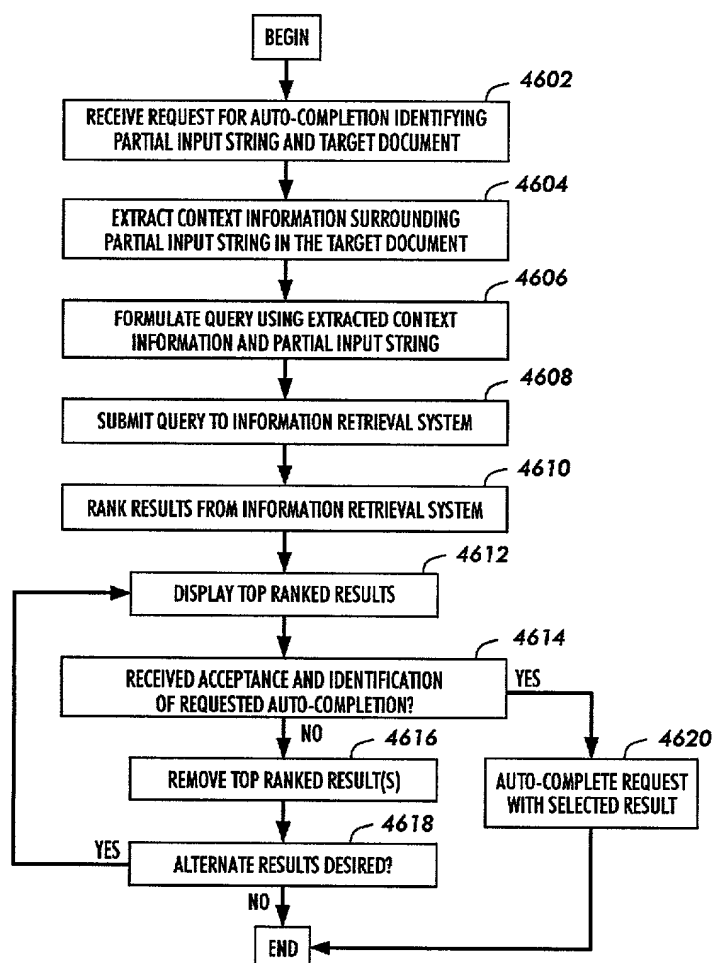
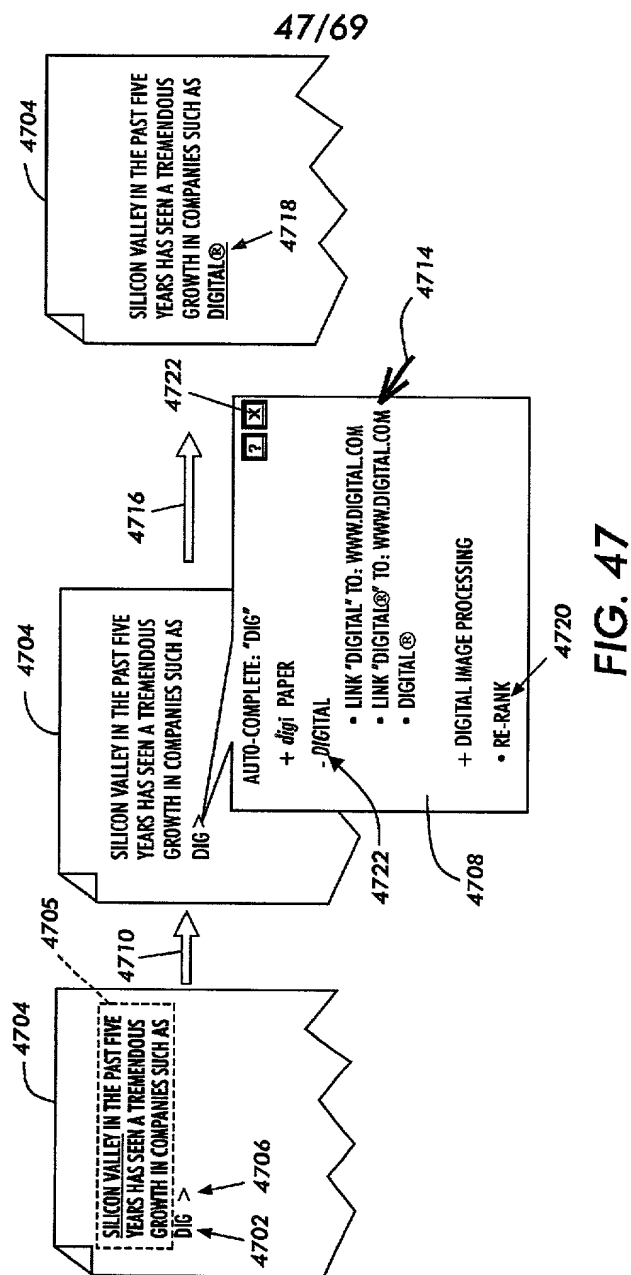


FIG. 46



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(A) KEY	(B) ENTITY	(C) MARKUP	(D) FORMAT	(E) ORIGIN	(F) ORIGIN POSITION	(G) PART OF SPEECH	(H) CONTEXT
Sili	Silicon Valley	www.siliconvalley.com	Capitalize	TARGET DOCUMENT CONTENT	1	Noun	Science
Dig	Digital	www.digital.com	®	www.digital.com	434	Adjective	Science
Dig	DigiPaper	NONE	Bold	www.parc.xerox.com	23	Noun	Science
Dig	digress	NONE	NONE	www.nytimes.com	343	Verb	Politics
...

FIG. 48

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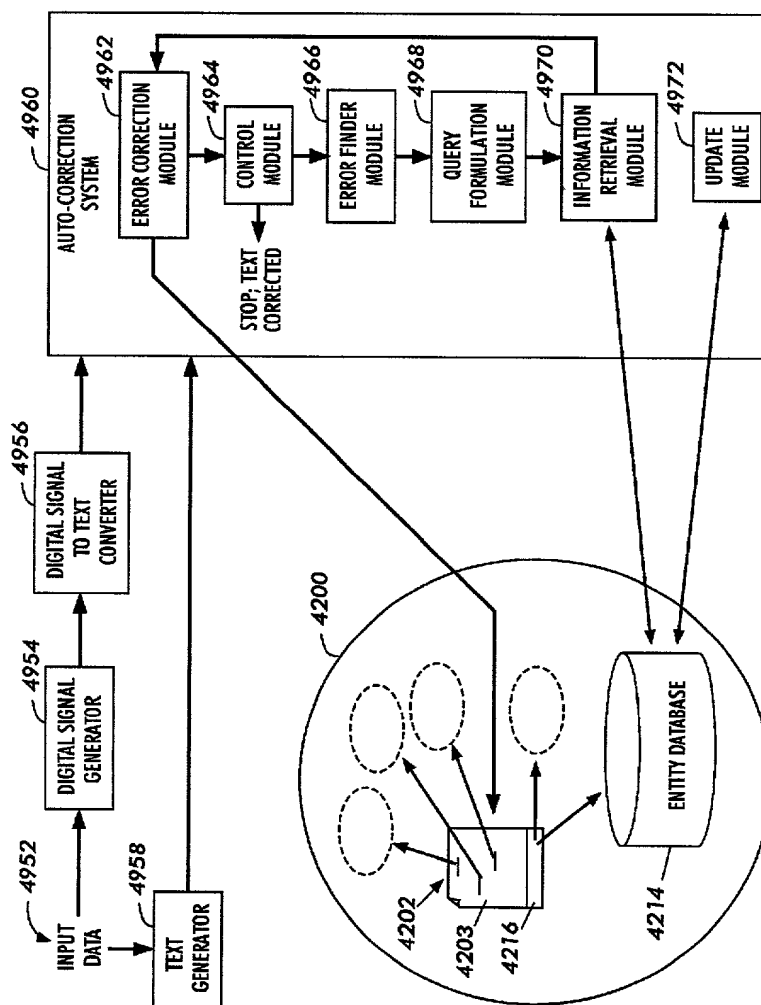


FIG. 49

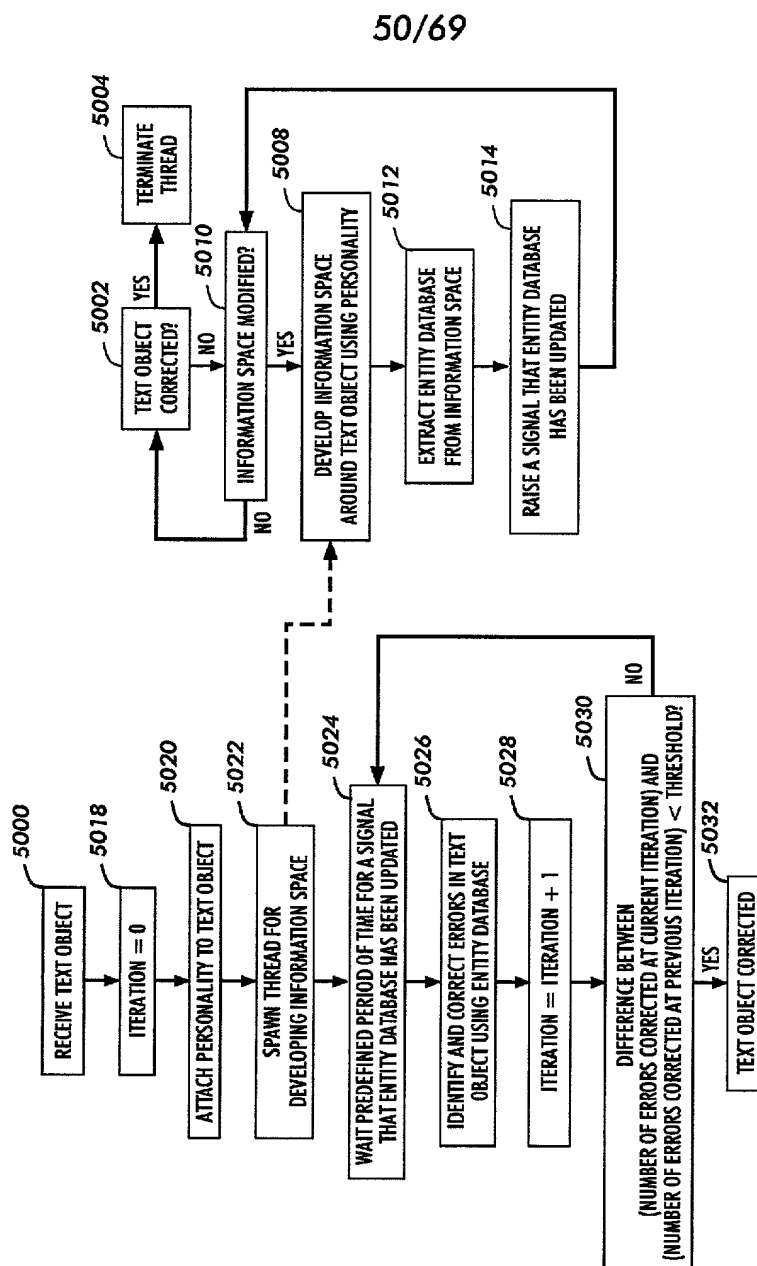


FIG. 50

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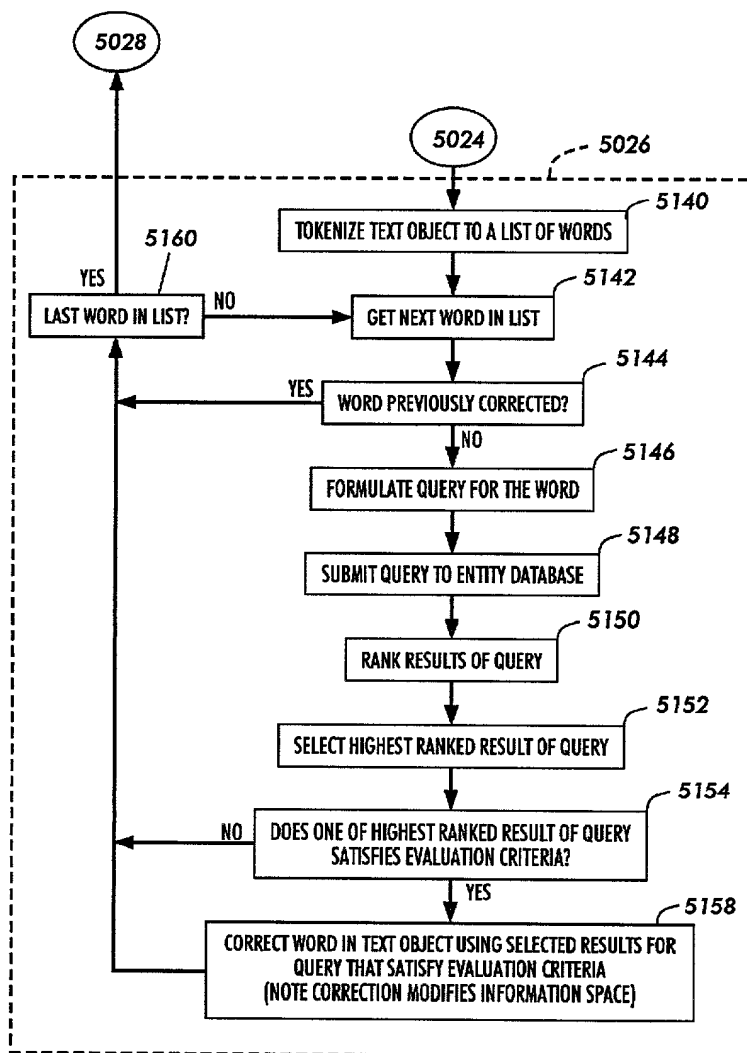


FIG. 51

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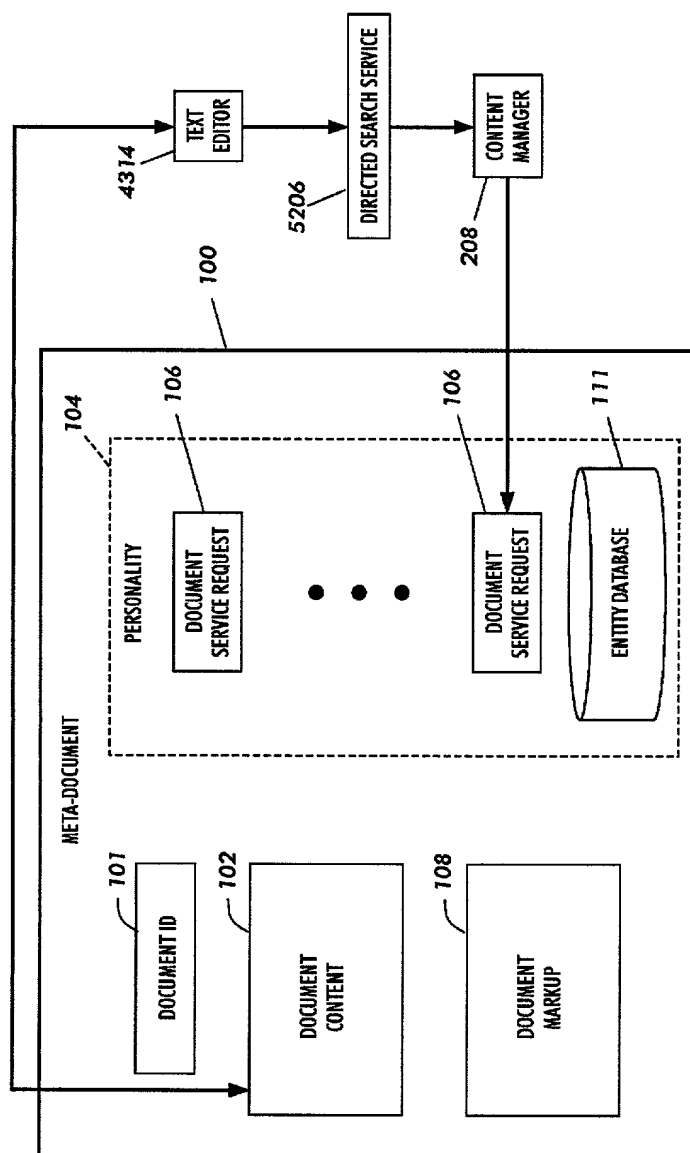


FIG. 52

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5300 DIRECTED SEARCH

5302 Get: Products For: Xerox **5304**

5306 Insert Result as: ☐ Link ☒ Content ☐ Metadata

5308 Update Frequency: Monthly

5310 Select Providers

Reuters
Thomson
Hoover

5312 Ensures:

Language of text is: English

☒ Premium ☐ Non-Premium

☐ Low Quality ☒ High Quality

☐ Copyrighted ☒ Not Copyrighted

☐ Free ☒ Paid Max price \$ 50

Maximum number of words: 2000

5318 Search Selected Providers By:

5320 ☒ Cost

5322 ☐ Speed

5314 Location Of Results:

☒ After Current Selection

☐ Before Current Selection

☐ As Comment To Current Selection

☐ As Footnote To Current Selection

5315 Current Selection Is:

Xerox in the past five years has seen tremendous growth **5317**

5316 Cancel Insert

FIG. 53

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5400

```

<service id='Products'
  refresh=30
  insert='Content'
  language='En'
  quality='Premium&High&Not-copyrighted&paid'
  maxprice='50'
  maxwords='2000'
  search='cost'>
  <entity>Xerox
    <offsets>13 18 456 461 710 715</offsets>
    <provider name='Thomson' id=18></provider>
    <provider name='Reuters' id=19></provider>
  </entity>
</service>

```

FIG. 54

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5500

IMPORT/EXPORT

EXPORT

NAME:

BROWSE

5502

EXPORT:

☒ ORIGINAL DOCUMENT CONTENT

☒ DOCUMENT MARKUP (I.E., ENRICHMENT)

☒ PERSONALITIES

5506

ADVANCED EXPORT CONTROL

5508

5512

IMPORT

NAME:

BROWSE

5510

IMPORT:

☒ ALL CONTENT

☐ SELECTED CONTENT ONLY

☐ ORIGINAL DOCUMENT CONTENT

☐ DOCUMENT MARKUP (I.E., ENRICHMENT)

☐ PERSONALITIES

☒ BIND UN-MATCHED ELEMENTS

☒ ENHANCE BOUND ELEMENTS WITH EXISTING SERVICE PROVIDERS

5514

OK

CANCEL

FIG. 55

5500 5502 5504 5506 5508 5510 5512 5514

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```

<!-- SERVER ID>
<docsouls:serverid> DS vl.0 server name </docsouls:serverid>
  <!-- PROPERTIES OF DOCUMENT>
    <docsouls:docid> xxx </docsouls:docid>
    <docsouls:name> xxx </docsouls:name>
    <docsouls:owner> xxx </docsouls:owner>
  ...
  <!-- ORIGINAL DOCUMENTS DOCUMENT CONTENT>
    <docsouls:originaldoc format="HTML">toto.html</docsouls:originaldoc>
    <docsouls:browsingdoc format="HTML">browse.html</docsouls:browsingdoc>
  ...
  <!-- LIST OF PERSONALITIES AND DOCUMENT SERVICE REQUESTS>
    <docsouls:endowmentdescription>
      <!-- LIST OF PERSONALITIES>
        <docsouls:personality id = " " name=" " etc.>
        <docsouls:service id=" " name=" " etc.>
          <docsouls:provider name=" " etc.>
            <docsouls:provider name=" " etc.>
          </docsouls:service>
        </docsouls:personality>
      ...
      <!-- LIST OF SERVICE REQUESTS>
        <docsouls:service id=" " name=" " etc.>
          <docsouls:provider name=" " etc.>
            <docsouls:provider name=" " etc.>
          </docsouls:service>
        ...
      </docsouls:endowmentdescription>
    </docsouls:service>
  ...
</docsouls:endowmentdescription>

```

FIG. 56

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```

<!-- DESCRIPTIONS OF PERSONALITIES>
<docsouls:personalitydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields AND service categories>
  <docsouls:servicecategory id="" name = "">
</docsouls:personalitydescription>

<!-- NEXT PERSONALITY DESCRIPTION>
...

<!-- DESCRIPTION OF DOCUMENT SERVICE REQUESTS>
<docsouls:servicedescription>
  <docsouls:id> xx </docsouls:id>
  <!-- list all fields (e.g., "refresh period", category, etc.)>
  <!-- list all providers>
  <docsouls:provider id="" name = "">
  <!-- list all strategies>
  <!-- list status of services (original, frozen, mapped, etc.)>
  <docsouls:servicestatus status="mapped" originalid="" originalserver="">
  <!-- list ServerId if the service was not available on current server>
  <docsouls:serverid>id</docsouls:serverid>
</docsouls:servicedescription>

<!-- NEXT SERVICE REQUESTS DESCRIPTION>
...

```

FIG. 57

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```

<!-- DESCRIPTION OF PROVIDERS >
<docsouls:providerdescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields e.g. key, URL, etc.>
</docsouls:providerdescription >

<!-- DESCRIPTION OF DICTIONARIES >
<docsouls:dictionarydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields, e.g. category>
</docsouls:dictionarydescription>

<!-- DESCRIPTION OF STRATEGY >
<docsouls:strategydescription>
  <docsouls:id> xx </docsouls:id>
  <!--all the fields>
  <!--all the dictionaries>
</docsouls:strategydescription>

<!-- RESULTS OF GLOBAL SERVICES >
<docsouls:globalservice id="Summary">
  <docsouls:link> xxx </docsouls:link>
  <docsouls:content> xxx </docsouls:content>
</docsouls:globalservice>

<!-- OTHER RESULTS (E.G. KEYWORDS, CATEGORIES, ETC.) >

```

FIG. 58A

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```

<!-- (OPTIONAL) DESCRIPTION OF ENRICHMENT PERFORMED AT OTHER DOCUMENT ENRICHMENT
SYSTEMS>
<docsouls:serverid>olderServerId</docsouls:serverid>
<docsouls:personalitydescription>...</docsouls:personalitydescription>
<docsouls:servicedescription>...</docsouls:servicedescription>

<!-- (OPTIONAL) LIST OF RESULTS OF THE LAST ENRICHMENT>
<!-- IDENTIFY DOCUMENT SECTION IN CASE OF MULTI-PART DOC>
<docsouls:docpart>main frame.html</docsouls:docpart>
<!-- OFFSET WHEN ENRICHMENT APPLIES TO A SECTION>
<docsouls:offset> 0 200 </docsouls:offset>
<!-- STATUS OF SERVICE APPLIED ("ACTIVE" OR "FROZEN")>
<docsouls:service id="stockQuote" status="active">
  <!-- ENTITY>
  <docsouls:entity>Xerox
    <!-- NORMALIZED FORM>
    <docsouls:normform>Xerox</docsouls:normform>
    <!-- LIST OF OFFSETS WHERE ENTITY IS FOUND IN TEXT RELATIVE TO SECTION>
    <docsouls:offsets start=35 end=40 />
    <docsouls:offsets start=232 end=237 />
    <!-- DICTIONARIES>
    <docsouls:dict> xxx </docsouls:dict>
    <!-- STRATEGIES>
    <docsouls:strat> xxx </docsouls:strat>
    <!-- LINK INFORMATION>
    <docsouls:link> xxx </docsouls:link>
    <!-- CONTENT INFORMATION>
    <docsouls:content> xxx </docsouls:content>
  </docsouls:entity>
  <!-- NEXT ENTITY>
  ...
</docsouls:service>

```

FIG. 58B

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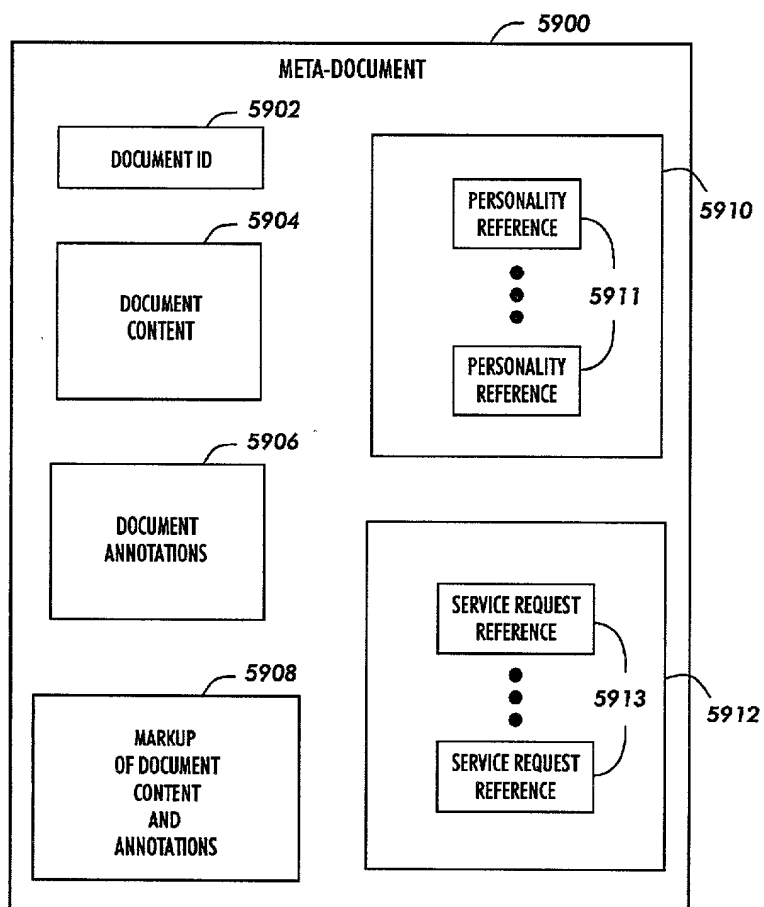


FIG. 59

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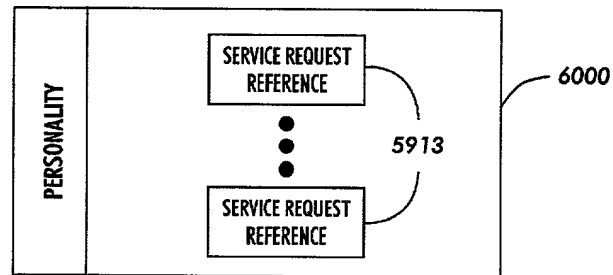


FIG. 60

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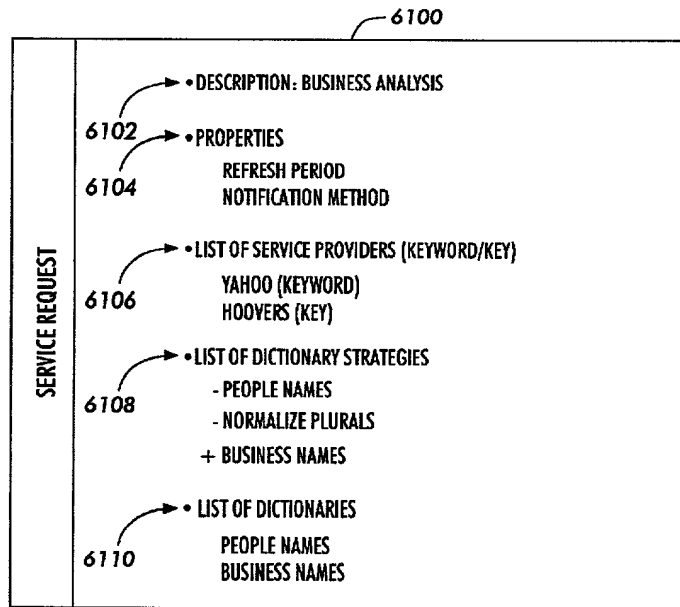
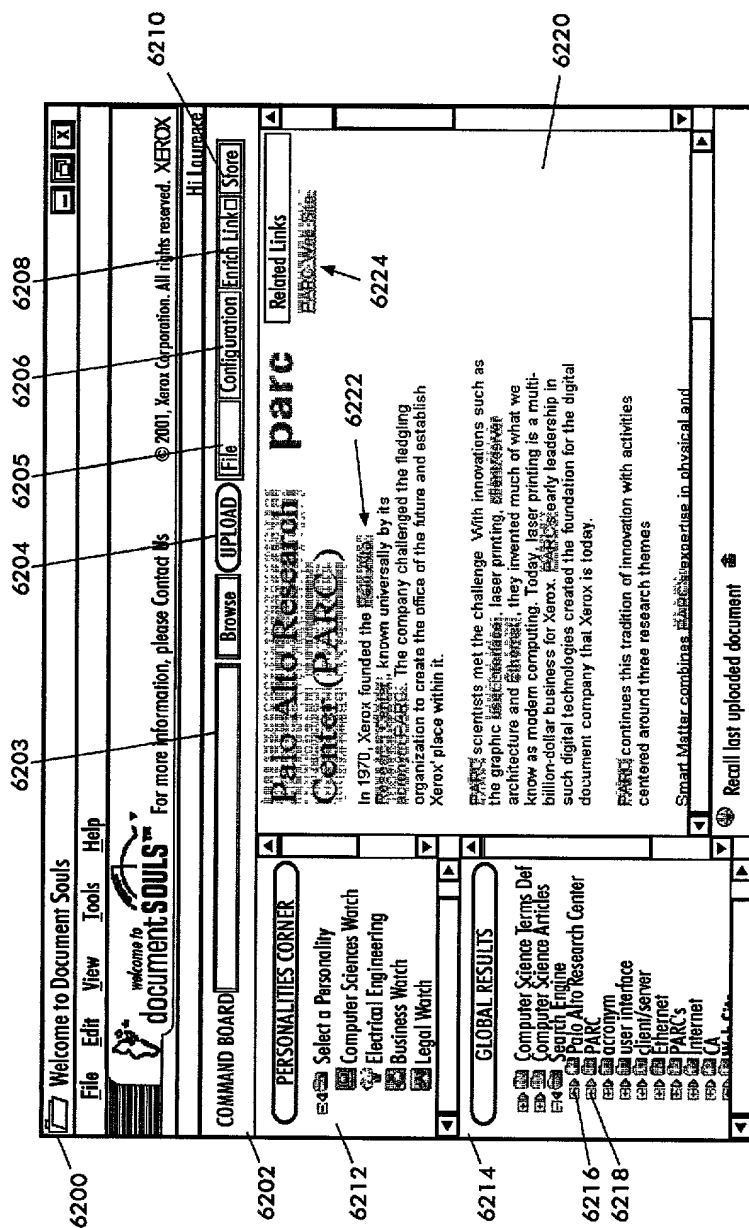


FIG. 61

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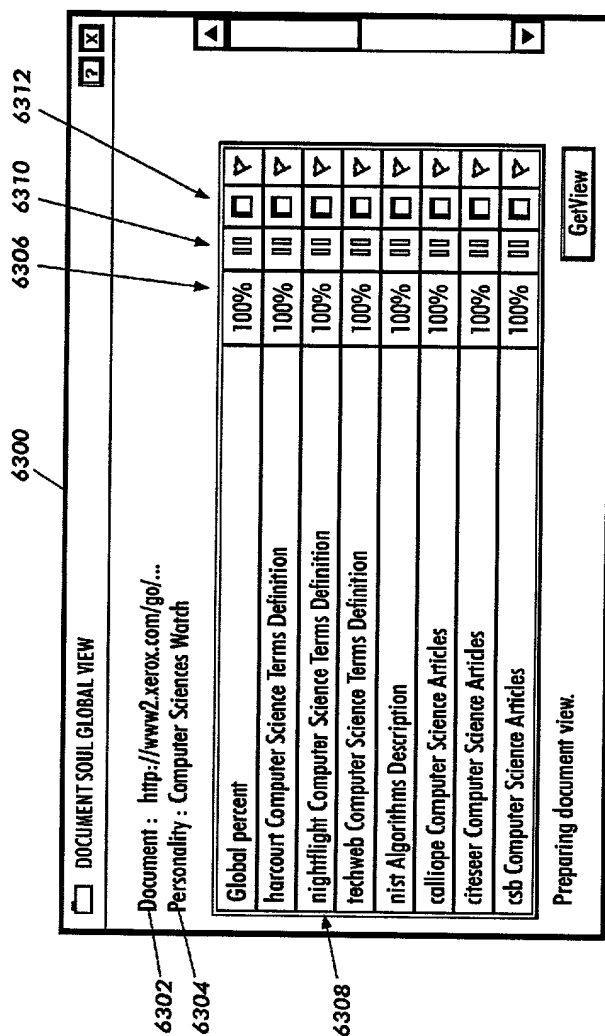


FIG. 63

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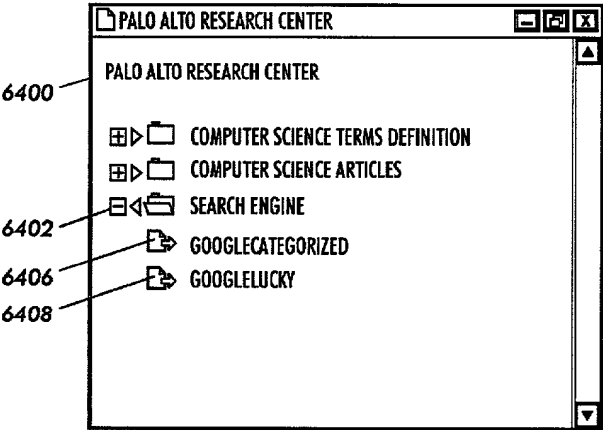


FIG. 64

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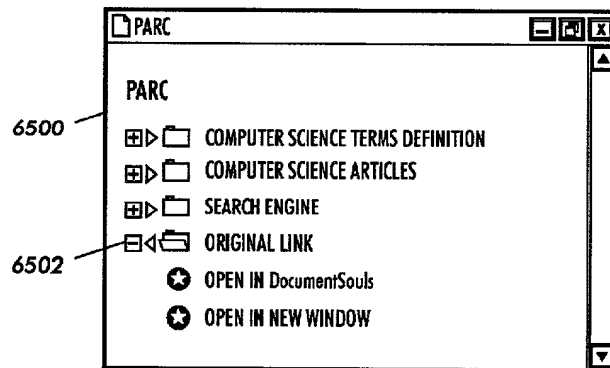


FIG. 65

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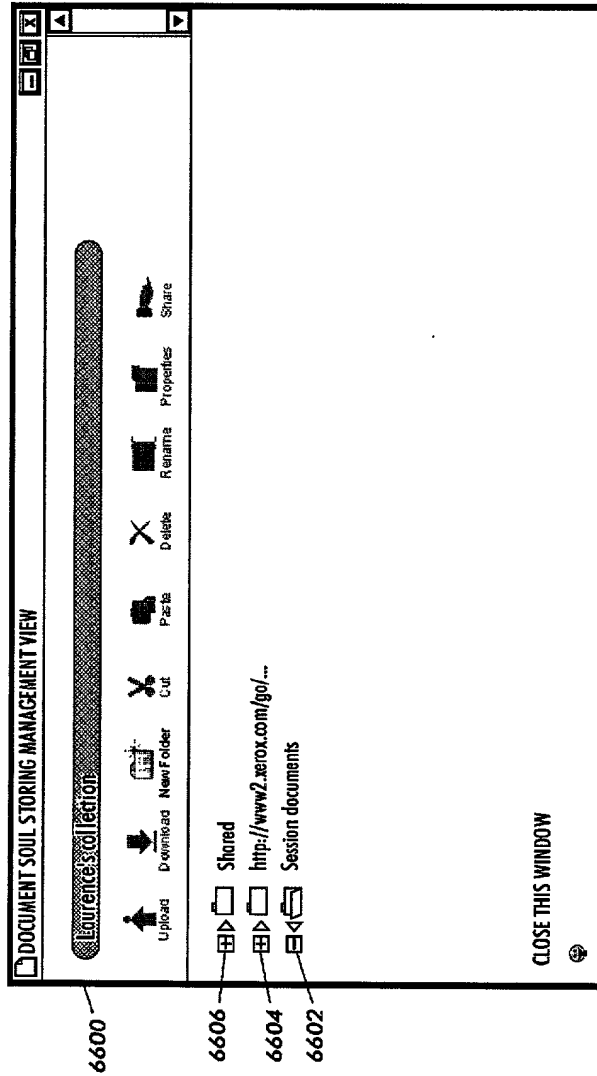


FIG. 66

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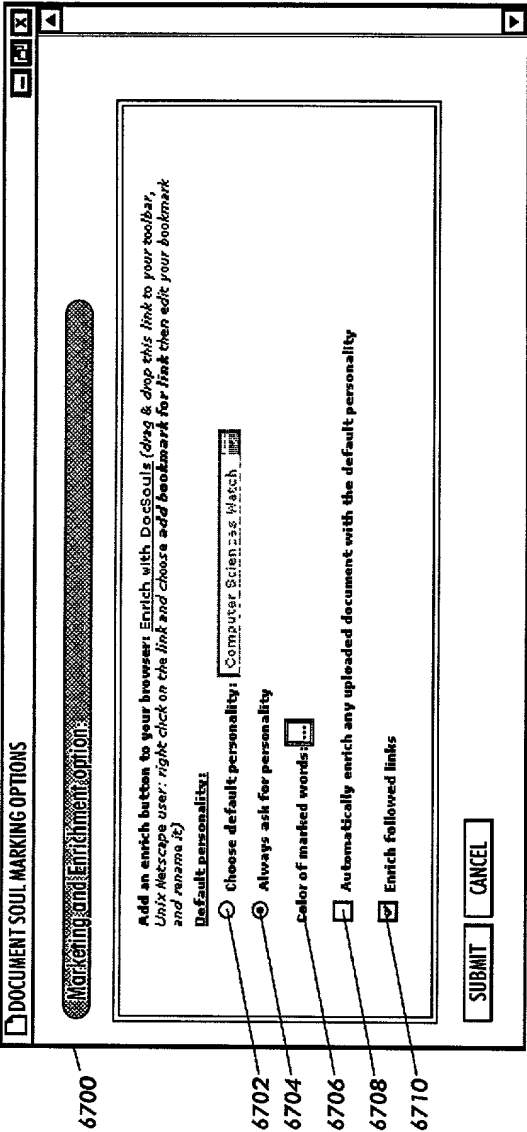


FIG. 67

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DOCUMENT SOUL SERVICES CONFIGURATION

List available service categories:

Abstracts	
Abstracts from Compendex STANDARD [X]	Abstracts from Web of Science STANDARD [X]
LOW [X] Unknown	LOW [X] Unknown
sup abstract office none	web abstracts none
LICED [X]	LICED [X]
LINK [X]	LINK [X]

6800

Industry Standards	RIP
Patents and I/P's	RIP
Engineering Handbooks	RIP
Technical News	RIP
Technical Information	RIP

6802

List all Abstracts from Compendex dictionaries:

Name	Category	Select
electrical Engineering names	/Science/Technology/ %Society/People/	[X] [X]

6804

FIG. 68